

# Selection Guide

## KI-Automotive Box-PC

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KI-Automotive Box-PC  
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## Selection Guide KI-Automotive Box-PC



**Railway-AI Box-PC 8110-A**



**Advanced Telematics Computer 8110  
(Fanless)**



**Advanced Telematics Computer 8110-F  
(Fan Kit)**

|                                |                                                                                                                                         |                                                                                                                |                                                                                                                |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Cooling System                 | Smart fan design                                                                                                                        | Fanless                                                                                                        | Smart fan kit (installed)                                                                                      |
| Mounting System                | Wall Mount                                                                                                                              | Wall Mount, DIN Rail                                                                                           | Wall Mount, DIN Rail                                                                                           |
| CPU                            | Intel® Coffee-Lake S/Refresh Xeon® / Core i7 / i5 / i3 processor (LGA1151); Optional (by request): Intel® Pentium® / Celeron® processor | Intel® Coffee-Lake S/Refresh Xeon® / Core i7 / i5 / i3 (LGA1151); Optional: Intel® Pentium® / Celeron®         | Intel® Coffee-Lake S/Refresh Xeon® / Core i7 / i5 / i3 CPU                                                     |
| CPU Socket                     | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Chipset                        | Intel® chipset C246                                                                                                                     | Intel® chipset C246                                                                                            | Intel® chipset C246                                                                                            |
| BIOS                           | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Watchdog Timer                 | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Controller                     | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Basic Equipment                | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Maximum Equipment              | 64GB for two channels                                                                                                                   | 64G (for two channels)                                                                                         | 64G (for two channels)                                                                                         |
| DRAM                           | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| SDRAM                          | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| DIMM / MemorySocket            | Dual-Channel 260-pin DDR4 SO-DIMM                                                                                                       | Dual-Channel 260-pin DDR4 SO-DIMM                                                                              | Dual-Channel 260-pin DDR4 SO-DIMM                                                                              |
| Compact Flash                  | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| SD                             | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| HDD                            | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| HD SATA                        | 4x 2.5" SATA 3.0 SSD/HDD                                                                                                                | 3x 2.5" SATA 3.0 SSD / HDD (15 mm height) or 2x 2.5" SATA 3.0 SSD / HDD + 1x u.2 NVMe SSD                      | 3x 2.5" SATA 3.0 SSD / HDD (15 mm height) or 2x 2.5" SATA 3.0 SSD / HDD + 1x u.2 NVMe SSD                      |
| Removeable Storage             | 1x CFast                                                                                                                                | -                                                                                                              | -                                                                                                              |
| Graphic Interface              | Optional up to NVIDIA® RTX 3090, 450W or more advanced in the future Graphics Adapter, 1x VGA/CRT, 1x HDMI                              | Optional Graphics Card up to NVIDIA® RTX 2080Ti Graphics Adapter, 1x VGA/CRT, 1x HDMI                          | Optional Graphics Card up to NVIDIA® RTX 2080Ti Graphics Adapter, 1x VGA/CRT, 1x HDMI                          |
| Interface COM                  | 4x RS232/RS422/RS485                                                                                                                    | 4x RS232/RS422/RS485                                                                                           | 4x RS232/RS422/RS485                                                                                           |
| CAN                            | 1x                                                                                                                                      | 1x                                                                                                             | 1x                                                                                                             |
| Galvanic Isolation             | -                                                                                                                                       | x                                                                                                              | x                                                                                                              |
| Interface USB                  | 2x USB 3.0                                                                                                                              | 1x USB 2.0, 5x USB 3.0                                                                                         | 1x USB 2.0, 5x USB 3.0                                                                                         |
| Interface IEEE1394             | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Interface LAN                  | 2x 10/100/1000 BASE-T, 4x optional PoE                                                                                                  | 2x RJ45 10/100/1000 BASE-T, 4/8-port independent GbE/ PoE PCIe card, w/ 802.3af/at, RJ45 or M12 (optional) PoE | 2x RJ45 10/100/1000 BASE-T, 4/8-port independent GbE/ PoE PCIe card, w/ 802.3af/at, RJ45 or M12 (optional) PoE |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                                               | GPIO, 4x Digital Input, 4x Digital Output                                                                      | GPIO, 4x Digital Input, 4x Digital Output                                                                      |
| Mini PCIe                      | 2x                                                                                                                                      | 2x                                                                                                             | 2x                                                                                                             |
| Mini PCI                       | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Camera                         | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Video Input                    | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Resolution                     | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Encoding                       | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Decoding/Playback              | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Bluetooth                      | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| eSATA                          | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Audio                          | 1x D-Sub HD9 for 1x Mic-in + 2x Line-out                                                                                                | 1x Mic-in, 1x Line-out                                                                                         | 1x Mic-in, 1x Line-out                                                                                         |
| Headphone                      | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| SIM Card                       | 2x SIM card sockets                                                                                                                     | 2x SIM socket                                                                                                  | 2x SIM socket                                                                                                  |
| GPS                            | 1x u-blox NEO-M8N GNSS module                                                                                                           | 1x U-blox NEO-M8N GPS module                                                                                   | 1x U-blox NEO-M8N GPS module                                                                                   |
| Mobile Communication 2G        | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Mobile Communication 3G        | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| PCI                            | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| PCIe                           | 4x                                                                                                                                      | 3x                                                                                                             | 3x                                                                                                             |
| PCI/104                        | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Operating System               | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Operating System Support       | WINDOWS 10 / LINUX                                                                                                                      | Windows 10 (64-bits), Linux, YOCTO (by request)                                                                | Windows 10 (64-bits), Linux, YOCTO (by request)                                                                |
| Input Voltage Nominal          | 24VDC / 36VDC                                                                                                                           | -                                                                                                              | -                                                                                                              |
| Input Voltage Min/Max          | -                                                                                                                                       | 9 to 36VDC                                                                                                     | 9 to 36VDC                                                                                                     |
| Output Voltage Nominal         | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Output Voltage Min/Max         | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Input Current                  | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Input Power                    | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Battery                        | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Operating Temperature          | -40°C to 70°C                                                                                                                           | -30°C to 60°C                                                                                                  | -30°C to 60°C                                                                                                  |
| Extended Operating Temperature | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Storage Temperature            | -40°C to 85°C                                                                                                                           | -40°C to 85°C                                                                                                  | -40°C to 85°C                                                                                                  |
| Relative Humidity              | 10% to 90% (non-condensing)                                                                                                             | 10% to 90% (non-condensing)                                                                                    | 10% to 90% (non-condensing)                                                                                    |
| Protection                     | Vibration & Shock                                                                                                                       | Vibration & Shock                                                                                              | Vibration & Shock                                                                                              |
| Certification                  | CE, EN50155 (Railway), Class A FCC                                                                                                      | CE, e13 (Vehicle), Class A FCC                                                                                 | CE, e13 (Vehicle), Class A FCC                                                                                 |
| Dimensions                     | 215 x 205 x 385 mm (W x D x H)                                                                                                          | 191,2 x 176 x 350 mm (W x D x H)                                                                               | 207,4 x 176 x 350 mm (W x D x H)                                                                               |
| Weight                         | 10,5 kg                                                                                                                                 | 8 Kg (w/o graphics / PCIe card)                                                                                | 8,2 Kg (w/o graphics / PCIe card)                                                                              |
| Material                       | -                                                                                                                                       | -                                                                                                              | -                                                                                                              |
| Typ. Application               | Automotive, Railway                                                                                                                     | Industrial, Automotive, Railway                                                                                | Industrial, Automotive, Railway                                                                                |

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**Railway-AI Box-PC 8110-A**



**Advanced Telematics Computer 8110 (Fanless)**



**Advanced Telematics Computer 8110-F (Fan Kit)**

| Bestellinformation                                                                                                                          |                                                                                                                                             |                                                                                                                                             |                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Artikel-Nr. PKBX5680<br>Railway-AI Box-PC 8110-A, Barebone System, 1x VGA, 1x HDMI, 2x GbE M12, fan kit                                     | Artikel-Nr. PKBX5681<br>Railway-AI Box-PC 8110-A, Intel Xeon E-2278GE 4.7GHz 8-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit  | Artikel-Nr. PKBX5682<br>Railway-AI Box-PC 8110-A, Intel Xeon E-2278GEL 3.9GHz 8-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit | Artikel-Nr. PKBX5683<br>Railway-AI Box-PC 8110-A, Intel Core i7-9700E 4.4GHz 8-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit  |
| Artikel-Nr. PKBX5684<br>Railway-AI Box-PC 8110-A, Intel Core i7-9700TE 3.8GHz 8-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit | Artikel-Nr. PKBX5685<br>Railway-AI Box-PC 8110-A, Intel Core i7-8700T 4.0GHz 6-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit  | Artikel-Nr. PKBX5686<br>Railway-AI Box-PC 8110-A, Intel Core i5-9500E 4.2GHz 6-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit  | Artikel-Nr. PKBX5687<br>Railway-AI Box-PC 8110-A, Intel Core i5-9500TE 3.6GHz 6-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit |
| Artikel-Nr. PKBX5688<br>Railway-AI Box-PC 8110-A, Intel Core i3-9100E 3.7GHz 4-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit  | Artikel-Nr. PKBX5689<br>Railway-AI Box-PC 8110-A, Intel Core i3-9100TE 3.2GHz 4-core, 1x VGA, 1x HDMI, 2x GbE M12, up to 64GB DDR4, fan kit | Artikel-Nr. PKBO3502<br>GigE/GbE PCIe 3.0 x4 Expansion card w/ 4x M12 PoE+, M12 X-coded PoE+ 60W, -40°C to 85°C                             |                                                                                                                                             |
| Artikel-Nr. PKBX5910<br>Advanced Telematics Computer 8110, Barebone System, 1x VGA, 1x HDMI, 2x PoE, fanless                                | Artikel-Nr. PKBX5911<br>ATC 8110, Intel® Xeon® E-2278GE 4.7GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                    | Artikel-Nr. PKBX5912<br>ATC 8110, Intel® Core i7-9700E 4.4GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                     | Artikel-Nr. PKBX5913<br>ATC 8110, Intel® Core i7-9700TE 3.8GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                    |
| Artikel-Nr. PKBX5914<br>ATC 8110, Intel® Core i7-8700T 4.0GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                     | Artikel-Nr. PKBX5915<br>ATC 8110, Intel® Core i5-9500E 4.2GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                     | Artikel-Nr. PKBX5916<br>ATC 8110, Intel® Core i5-9500TE 3.6GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                    | Artikel-Nr. PKBX5917<br>ATC 8110, Intel® Core i3-9100E 3.7GHz 4-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                     |
| Artikel-Nr. PKBX5918<br>ATC 8110, Intel® Core i3-9100TE 3.2GHz 4-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                    | Artikel-Nr. PKBX5919<br>ATC 8110, Intel® Xeon® E-2278GEL 3.9GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fanless                   |                                                                                                                                             |                                                                                                                                             |
| Artikel-Nr. PKBX5910-1<br>Advanced Telematics Computer 8110-F, Barebone System, 1x VGA, 1x HDMI, 2x PoE, fan kit                            | Artikel-Nr. PKBX5911-1<br>ATC 8110-F, Intel® Xeon® E-2278GE 4.7GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                | Artikel-Nr. PKBX5912-1<br>ATC 8110-F, Intel® Core i7-9700E 4.4GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                 | Artikel-Nr. PKBX5913-1<br>ATC 8110-F, Intel® Core i7-9700TE 3.8GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                |
| Artikel-Nr. PKBX5914-1<br>ATC 8110-F, Intel® Core i7-8700T 4.0GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                 | Artikel-Nr. PKBX5915-1<br>ATC 8110-F, Intel® Core i5-9500E 4.2GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                 | Artikel-Nr. PKBX5916-1<br>ATC 8110-F, Intel® Core i5-9500TE 3.6GHz 6-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                | Artikel-Nr. PKBX5917-1<br>ATC 8110-F, Intel® Core i3-9100E 3.7GHz 4-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                 |
| Artikel-Nr. PKBX5918-1<br>ATC 8110-F, Intel® Core i3-9100TE 3.2GHz 4-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit                | Artikel-Nr. PKBX5919-1<br>ATC 8110-F, Intel® Xeon® E-2278GEL 3.9GHz 8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan kit               |                                                                                                                                             |                                                                                                                                             |

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**Railway-AI 19" RACK-SERVER Type 2**
**Advanced Telematics Computer  
3750-A6CR**
**Advanced Telematics Computer  
3750-6C**

|                                |                                                                                                                         |                                                                                                                           |                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Cooling System                 | Fanless                                                                                                                 | Fanless                                                                                                                   | Fanless                                                                                                                   |
| Mounting System                | Wall Mount, Rackmount                                                                                                   | Wall Mount                                                                                                                | Wall Mount                                                                                                                |
| CPU                            | 9th / 8th Gen Intel® Coffee Lake S / Refresh Core/Xeon® LGA1151 socket type processor support                           | NVIDIA® Jetson AGX Orin™ SOM, up to 200/275 TOPS (INT8)                                                                   | NVIDIA® Jetson AGX Orin™ SOM, up to 200/275 TOPS (INT8)                                                                   |
| CPU Socket                     | -                                                                                                                       | NVIDIA® JetPack 5.1.1                                                                                                     | NVIDIA® JetPack 5.0.2                                                                                                     |
| Chipset                        | Intel® C246 platform controller hub                                                                                     | -                                                                                                                         | -                                                                                                                         |
| BIOS                           | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Watchdog Timer                 | -                                                                                                                       | -                                                                                                                         | Through MCU                                                                                                               |
| Controller                     | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Basic Equipment                | -                                                                                                                       | 32/64GB                                                                                                                   | 32/64GB                                                                                                                   |
| Maximum Equipment              | 32GB/channel (128GB for four channels)                                                                                  | -                                                                                                                         | -                                                                                                                         |
| DRAM                           | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| SDRAM                          | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| DIMM / MemorySocket            | 4x DDR4 SO-DIMM                                                                                                         | 256-bit LPDDR5, 204.8 GB/s                                                                                                | 256-bit LPDDR5, 204.8 GB/s                                                                                                |
| Compact Flash                  | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| SD                             | 1x                                                                                                                      | 1 x Accessible SD card (SDXC-I/ UHS-I, SD3.0)<br>1 x M.2 2280 Key M (PCIe4.0 x4), NVMe SSD                                | 1 x Accessible SD card (SDXC-I/ UHS-I, SD3.0)<br>1 x M.2 2280 Key M (PCIe4.0 x4), NVMe SSD                                |
| HDD                            | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| HD SATA                        | 1x mSATA                                                                                                                | 64GB eMMC 5.1 flash storage, 200 MHz                                                                                      | 64GB eMMC 5.1 flash storage, 200 MHz                                                                                      |
| Removeable Storage             | 6x 2.5" SATA 3.0 external SSD                                                                                           | -                                                                                                                         | -                                                                                                                         |
| Graphic Interface              | NVIDIA® GEFORCE® GTX 1650 SP 1280 CUDA 4GB GDDR6; Chipset Intel® UHD Graphics 630 Graphics Adapter, 1x VGA/CRT, 1x HDMI | 1x HDMI                                                                                                                   | 1x HDMI                                                                                                                   |
| Interface COM                  | 2x RS232 (w/ isolation), 2x RS232/422/485 (w/ isolation)                                                                | 2x RS232                                                                                                                  | 2x RS232                                                                                                                  |
| CAN                            | 1x                                                                                                                      | 2 x CAN 2.0A/2.0B                                                                                                         | 2 x CAN 2.0A/2.0B                                                                                                         |
| Galvanic Isolation             | x                                                                                                                       | x                                                                                                                         | x                                                                                                                         |
| Interface USB                  | 4x USB 3.0                                                                                                              | 1x OTG micro USB USB, 2 x USB 3.2 Typ A USB 3.0                                                                           | 1x OTG micro USB USB, 2 x USB 3.2 Gen 2 USB 3.0                                                                           |
| Interface IEEE1394             | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Interface LAN                  | 2x 10/100/1000 BASE-T, (optional) PoE                                                                                   | 10/100/1000 BASE-T, 10GbE, RJ45 (optional)<br>2,5G - 5G BASE-T, 2 x RP-SMA for Wi-Fi WLAN, 6-port GbE, RJ45 connector PoE | 10/100/1000 BASE-T, 10GbE, RJ45 (optional)<br>2,5G - 5G BASE-T, 2 x RP-SMA for Wi-Fi WLAN, 6-port GbE, RJ45 connector PoE |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                               | GPIO, 4x Digital Input, 4x Digital Output                                                                                 | GPIO, 4x Digital Input, 4x Digital Output                                                                                 |
| Mini PCIe                      | 3x                                                                                                                      | 1x                                                                                                                        | 1x                                                                                                                        |
| Mini PCI                       | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Camera                         | -                                                                                                                       | 6-port GbE PoE+ (X-coded) for IP CAM/LiDAR sensors, optional 1-port 10GbE (X-coded)                                       | 6-port GbE PoE+ (X-coded) for IP CAM/LiDAR sensors, optional 1-port 10GbE (X-coded)                                       |
| Video Input                    | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Resolution                     | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Encoding                       | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Decoding/Playback              | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Bluetooth                      | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| eSATA                          | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Audio                          | 1x Mic-in, 2x Line-out                                                                                                  | -                                                                                                                         | -                                                                                                                         |
| Headphone                      | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| SIM Card                       | 8x externally SIM card sockets                                                                                          | 2x Micro SIM slots                                                                                                        | 2x Micro SIM slots                                                                                                        |
| GPS                            | 1x u-blox NEO-M8N GNSS module                                                                                           | 1x U-blox NEO-M8N GPS module                                                                                              | 1x U-blox NEO-M8N GPS module                                                                                              |
| Mobile Communication 2G        | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Mobile Communication 3G        | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| PCI                            | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| PCIe                           | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| PCI/104                        | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Operating System               | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Operating System Support       | WINDOWS 10, LINUX                                                                                                       | Linux (NAL) w/ Jetpack 5.0.2 integrated, Ubuntu 20.04 (L4T 35.1, Linux Kernel 5.10)                                       | Linux (NAL) w/ Jetpack 5.0.2 integrated, Ubuntu 20.04 (L4T 35.1, Linux Kernel 5.10)                                       |
| Input Voltage Nominal          | 24/110VDC with 2.5KVDC isolation                                                                                        | -                                                                                                                         | -                                                                                                                         |
| Input Voltage Min/Max          | -                                                                                                                       | 24VDC                                                                                                                     | 9 to 36VDC                                                                                                                |
| Output Voltage Nominal         | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Output Voltage Min/Max         | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Input Current                  | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Input Power                    | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Battery                        | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Operating Temperature          | -40°C to 70°C                                                                                                           | -25°C to 70°C                                                                                                             | -25°C to 70°C                                                                                                             |
| Extended Operating Temperature | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Storage Temperature            | -40°C to 80°C                                                                                                           | -40°C to 85°C                                                                                                             | -40°C to 85°C                                                                                                             |
| Relative Humidity              | 90% (non-condensing)                                                                                                    | 10%–95% (non-condensing)                                                                                                  | 10%–95% (non-condensing)                                                                                                  |
| Protection                     | Vibration & Shock                                                                                                       | Vibration & Shock                                                                                                         | Vibration & Shock                                                                                                         |
| Certification                  | CE, EN50155 (Railway), Class A FCC                                                                                      | CE, e13 (Vehicle), Class A FCC                                                                                            | CE, e13 (Vehicle), Class A FCC                                                                                            |
| Dimensions                     | 483 x 400 x 95 mm (W x D x H)                                                                                           | 234mm x 172,8mm x 80,5mm (W x D x H)                                                                                      | 234mm x 172,8mm x 80,5mm (W x D x H)                                                                                      |
| Weight                         | 8,5 kg                                                                                                                  | 3,5 kg                                                                                                                    | 3,5 kg                                                                                                                    |
| Material                       | -                                                                                                                       | -                                                                                                                         | -                                                                                                                         |
| Typ. Application               | Automotive, Railway                                                                                                     | Industrial, Automotive, Railway                                                                                           | Industrial, Automotive, Railway                                                                                           |

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## Selection Guide KI-Automotive Box-PC



### Railway-AI 19" RACK-SERVER Type 2

### Advanced Telematics Computer 3750-A6CR

### Advanced Telematics Computer 3750-6C

#### Bestellinformation

Artikel-Nr. PKBX5661

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN + 4x PoE, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5662

Railway-AI 19" RACK-SERVER Type 2 (w/o GPU), Barebone, 2x LAN + 4x PoE, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5663

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN + 2x 10GbE, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5664

Railway-AI 19" RACK-SERVER Type 2 (w/o GPU), Barebone, 2x LAN + 2x 10GbE, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5665

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5666

Railway-AI 19" RACK-SERVER Type 2 (w/o GPU), Barebone, 2x LAN, VGA+HDMI, 24VDC (w/ isolated)

Artikel-Nr. PKBX5667

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN + 4x PoE, VGA+HDMI, 110VDC (w/ isolated)

Artikel-Nr. PKBX5668

Railway-AI 19" RACK-SERVER Type 2 (w/o GPU), Barebone, 2x LAN + 4x PoE, VGA+HDMI, 110VDC (w/ isolated)

Artikel-Nr. PKBX5669

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN + 2x 10GbE, VGA+HDMI, 110VDC (w/ isolated)

Artikel-Nr. PKBX5670

Railway-AI 19" RACK-SERVER Type 2 (w/o GPU), Barebone, 2x LAN + 2x 10GbE, VGA+HDMI, 110VDC (w/ isolated)

Artikel-Nr. PKBX5671

Railway-AI 19" RACK-SERVER Type 2, GTX 1650 SP 1280, Barebone, 2x LAN, VGA+HDMI, 110VDC (w/ isolated)

Artikel-Nr. PKBX5930

ATC 3750-A6CR, NVIDIA JetsonAGX Orin SOM, 32GB LPDDR5, 64GB eMMC, 6x PoE+, 2x USB 3.2, 2x RS232, 24VDC

Artikel-Nr. PKBX5930-1

ATC 3750-A6CR-64, NVIDIA Jetson AGX Orin SOM, 64GB LPDDR5, 64GB eMMC, 6x PoE+, 2x USB 3.2, 2x RS232, 24VDC

Artikel-Nr. PKBX5931

ATC 3750-6C, NVIDIA JetsonAGX Orin SOM, 32GB LPDDR5, 64GB eMMC, 6x PoE+, 2x USB 3.2, 2x RS232, 9-36VDC/IGN

Artikel-Nr. PKBX5931-1

ATC 3750-6C-64, NVIDIA JetsonAGX Orin SOM, 64GB LPDDR5, 64GB eMMC, 6x PoE+, 2x USB 3.2, 2x RS232, 9-36VDC/IGN

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## Selection Guide KI-Automotive Box-PC



**Advanced Telematics Computer  
3750-IP7-8M**



**Advanced Telematics Computer 3530  
(Fanless)**



**Advanced Telematics Computer  
3540-IP7-4C**

| Cooling System                 | Fanless                                                                                                                                     | Cooling System                 | Fanless                                                                                  | Cooling System                 | Fanless                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Mounting System                | Wall Mount                                                                                                                                  | Mounting System                | Wall Mount                                                                               | Mounting System                | Wall Mount                                                                                                            |
| CPU                            | Built-in NVIDIA® Jetson AGX Orin™ SOM, up to 200/275 TOPS (INT8) performance                                                                | CPU                            | 3x NVIDIA® 64-bit Carmel (Dual-Core) processor, 1.900 MHz                                | CPU                            | NVIDIA® Jetson Orin™ NX SOM                                                                                           |
| CPU Socket                     | NVIDIA® JetPack 5.1.1                                                                                                                       | CPU Socket                     | -                                                                                        | CPU Socket                     | NVIDIA® JetPack 5.1.1                                                                                                 |
| Chipset                        | -                                                                                                                                           | Chipset                        | -                                                                                        | Chipset                        | -                                                                                                                     |
| BIOS                           | -                                                                                                                                           | BIOS                           | -                                                                                        | BIOS                           | -                                                                                                                     |
| Watchdog Timer                 | Through MCU                                                                                                                                 | Watchdog Timer                 | -                                                                                        | Watchdog Timer                 | -                                                                                                                     |
| Controller                     | -                                                                                                                                           | Controller                     | -                                                                                        | Controller                     | Intel® I210-IT                                                                                                        |
| Basic Equipment                | 32/64GB                                                                                                                                     | Basic Equipment                | 8GB                                                                                      | Basic Equipment                | 8GB/16GB                                                                                                              |
| Maximum Equipment              | -                                                                                                                                           | Maximum Equipment              | -                                                                                        | Maximum Equipment              | -                                                                                                                     |
| DRAM                           | -                                                                                                                                           | DRAM                           | -                                                                                        | DRAM                           | -                                                                                                                     |
| SDRAM                          | -                                                                                                                                           | SDRAM                          | -                                                                                        | SDRAM                          | -                                                                                                                     |
| DIMM / MemorySocket            | 256-bit LPDDR5, 204.8 GB/s                                                                                                                  | DIMM / MemorySocket            | 128-bit LPDDR4, 1.600MHz                                                                 | DIMM / MemorySocket            | 128-bit LPDDR5, 3.200MHz                                                                                              |
| Compact Flash                  | -                                                                                                                                           | Compact Flash                  | -                                                                                        | Compact Flash                  | -                                                                                                                     |
| SD                             | 1 x Accessible SD card (SDXC-I/ UHS-I, SD3.0)<br>1 x M.2 2280 Key M (PCIe4.0 x4), NVMe SSD                                                  | SD                             | 1x microSD                                                                               | SD                             | 2 x Micro SIM slots                                                                                                   |
| HDD                            | -                                                                                                                                           | HDD                            | -                                                                                        | HDD                            | -                                                                                                                     |
| HD SATA                        | 64GB eMMC 5.1 flash storage, 200 MHz                                                                                                        | HD SATA                        | 16GB eMMC 5.1                                                                            | HD SATA                        | -                                                                                                                     |
| Removeable Storage             | -                                                                                                                                           | Removeable Storage             | -                                                                                        | Removeable Storage             | -                                                                                                                     |
| Graphic Interface              | 1x HDMI                                                                                                                                     | Graphic Interface              | 384-Core Volta & 48-core Tensor integrated, 1.100MHz Graphics Adapter, 1x HDMI           | Graphic Interface              | 1x HDMI                                                                                                               |
| Interface COM                  | 1x RS232 (M12)                                                                                                                              | Interface COM                  | 2x RS232                                                                                 | Interface COM                  | 2x RS232                                                                                                              |
| CAN                            | 2 x CAN FD                                                                                                                                  | CAN                            | 2x                                                                                       | CAN                            | 1 x CAN 2.0A/2.0B                                                                                                     |
| Galvanic Isolation             | x                                                                                                                                           | Galvanic Isolation             | x                                                                                        | Galvanic Isolation             | x                                                                                                                     |
| Interface USB                  | 1x OTG micro USB USB, 2 x USB 2.0 (M12) USB 2.0, 2 x USB 3.2 Gen 2 USB 3.0                                                                  | Interface USB                  | 1x OTG micro USB USB, 2x USB 3.0                                                         | Interface USB                  | 1 x OTG, micro-USB USB, 2x USB 3.0                                                                                    |
| Interface IEEE1394             | -                                                                                                                                           | Interface IEEE1394             | -                                                                                        | Interface IEEE1394             | -                                                                                                                     |
| Interface LAN                  | 1 x 1GbE M12 X-coded 10/100/1000 BASE-T, 1 x 2.5GbE M12 X-coded 2.5G - 5G BASE-T, 2 x RP-SMA for Wi-Fi WLAN, 6-port GbE, RJ45 connector PoE | Interface LAN                  | 1x for PKBX5925 / 2x for PKBX5926 10/100/1000 BASE-T, optional WLAN, 4x for PKBX5925 PoE | Interface LAN                  | 1x 2,5G - 5G BASE-T, 4x PoE+ PoE                                                                                      |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                                                   | Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                | Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                             |
| Mini PCIe                      | 1x                                                                                                                                          | Mini PCIe                      | 1x                                                                                       | Mini PCIe                      | 1x                                                                                                                    |
| Mini PCI                       | -                                                                                                                                           | Mini PCI                       | -                                                                                        | Mini PCI                       | -                                                                                                                     |
| Camera                         | SerDes GMSL2                                                                                                                                | Camera                         | 4-Channel MIPI SerDes CAM (optional)                                                     | Camera                         | -                                                                                                                     |
| Video Input                    | 8-port FAKRA connector                                                                                                                      | Video Input                    | -                                                                                        | Video Input                    | 1 x HDMI 2.0A/B,                                                                                                      |
| Resolution                     | -                                                                                                                                           | Resolution                     | 720p30 / 1.080p60                                                                        | Resolution                     | 3.840 x 2.160@60Hz                                                                                                    |
| Encoding                       | -                                                                                                                                           | Encoding                       | HEVC / H.265                                                                             | Encoding                       | HEVC / H.265                                                                                                          |
| Decoding/Playback              | -                                                                                                                                           | Decoding/Playback              | -                                                                                        | Decoding/Playback              | -                                                                                                                     |
| Bluetooth                      | -                                                                                                                                           | Bluetooth                      | -                                                                                        | Bluetooth                      | -                                                                                                                     |
| eSATA                          | -                                                                                                                                           | eSATA                          | -                                                                                        | eSATA                          | -                                                                                                                     |
| Audio                          | -                                                                                                                                           | Audio                          | -                                                                                        | Audio                          | -                                                                                                                     |
| Headphone                      | -                                                                                                                                           | Headphone                      | -                                                                                        | Headphone                      | -                                                                                                                     |
| SIM Card                       | 2 x Nano SIM slots                                                                                                                          | SIM Card                       | 2x Micro SIM slots                                                                       | SIM Card                       | 2x Micro SIM slots                                                                                                    |
| GPS                            | 3D accelerometer and 3D gyroscope, ST LSM6DSLTR                                                                                             | GPS                            | 1x U-blox NEO-M8N GPS module                                                             | GPS                            | 1x U-blox NEO-M8N GPS module<br>Optional DR (dead reckoning) function, NEO-M9V                                        |
| Mobile Communication 2G        | -                                                                                                                                           | Mobile Communication 2G        | -                                                                                        | Mobile Communication 2G        | -                                                                                                                     |
| Mobile Communication 3G        | -                                                                                                                                           | Mobile Communication 3G        | -                                                                                        | Mobile Communication 3G        | -                                                                                                                     |
| PCI                            | -                                                                                                                                           | PCI                            | -                                                                                        | PCI                            | -                                                                                                                     |
| PCIe                           | -                                                                                                                                           | PCIe                           | -                                                                                        | PCIe                           | -                                                                                                                     |
| PCI/104                        | -                                                                                                                                           | PCI/104                        | -                                                                                        | PCI/104                        | -                                                                                                                     |
| Operating System               | -                                                                                                                                           | Operating System               | -                                                                                        | Operating System               | -                                                                                                                     |
| Operating System Support       | Linux (NAL) w/ Jetpack 5.0.2 integrated, Ubuntu 20.04 (L4T 35.1, Linux Kernel 5.10)                                                         | Operating System Support       | UBUNTU 18.04, NVIDIA® JetPack 4.5, MIPI SerDes CAM Driver, custom functions, V4L2        | Operating System Support       | Acceleration Linux (NAL) OS w/ JetPack 5.1.1 integrated                                                               |
| Input Voltage Nominal          | -                                                                                                                                           | Input Voltage Nominal          | -                                                                                        | Input Voltage Nominal          | -                                                                                                                     |
| Input Voltage Min/Max          | 9 to 36VDC                                                                                                                                  | Input Voltage Min/Max          | 9 to 36VDC                                                                               | Input Voltage Min/Max          | 9 to 36VDC(PKBX5929/-2),<br>24V for rail (PKBX5929-1/-3)                                                              |
| Output Voltage Nominal         | -                                                                                                                                           | Output Voltage Nominal         | -                                                                                        | Output Voltage Nominal         | -                                                                                                                     |
| Output Voltage Min/Max         | -                                                                                                                                           | Output Voltage Min/Max         | -                                                                                        | Output Voltage Min/Max         | -                                                                                                                     |
| Input Current                  | -                                                                                                                                           | Input Current                  | -                                                                                        | Input Current                  | -                                                                                                                     |
| Input Power                    | -                                                                                                                                           | Input Power                    | -                                                                                        | Input Power                    | -                                                                                                                     |
| Battery                        | -                                                                                                                                           | Battery                        | -                                                                                        | Battery                        | -                                                                                                                     |
| Operating Temperature          | -25°C to 70°C                                                                                                                               | Operating Temperature          | -30°C to 70°C                                                                            | Operating Temperature          | -30°C to 70°C                                                                                                         |
| Extended Operating Temperature | -                                                                                                                                           | Extended Operating Temperature | -                                                                                        | Extended Operating Temperature | -                                                                                                                     |
| Storage Temperature            | -40°C to 85°C                                                                                                                               | Storage Temperature            | -40°C to 85°C                                                                            | Storage Temperature            | -40°C to 85°C                                                                                                         |
| Relative Humidity              | 10%–95% (non-condensing)                                                                                                                    | Relative Humidity              | 10% to 90% (non-condensing)                                                              | Relative Humidity              | 10% to 90% (non-condensing)                                                                                           |
| Protection                     | Vibration & Shock                                                                                                                           | Protection                     | Vibration & Shock                                                                        | Protection                     | Vibration & Shock                                                                                                     |
| Certification                  | CE, e13 (Vehicle), Class A FCC                                                                                                              | Certification                  | CE, e13 (Vehicle), Class A FCC                                                           | Certification                  | CE, e13 (Vehicle), Class A FCC                                                                                        |
| Dimensions                     | 292,5mm x 155,0mm x 66,5mm (W x D x H)                                                                                                      | Dimensions                     | 213 x 167 x 82,8 mm (W x D x H)                                                          | Dimensions                     | 213mm x 167mm x 82,8mm (w/ mount bracket)(PKBX5929/-2),<br>213mm x 167mm x 122,8mm (w/ mount bracket) (PKBX5929-1/-3) |
| Weight                         | tbd kg                                                                                                                                      | Weight                         | 2,4 kg                                                                                   | Weight                         | 2,4 kg (PKBX5929/-2),<br>3,2kg (PKBX5929-1/-3)                                                                        |
| Material                       | -                                                                                                                                           | Material                       | -                                                                                        | Material                       | -                                                                                                                     |
| Typ. Application               | Industrial, Automotive, Railway                                                                                                             | Typ. Application               | Industrial, Automotive, Railway                                                          | Typ. Application               | Industrial, Automotive, Railway                                                                                       |

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## Selection Guide KI-Automotive Box-PC



**Advanced Telematics Computer  
3750-IP7-8M**



**Advanced Telematics Computer 3530  
(Fanless)**



**Advanced Telematics Computer  
3540-IP7-4C**

| Bestellinformation |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>Artikel-Nr. PKBX5932<br/>ATC 3750-IP7-8M, NVIDIA JetsonAGX Orin IP67, 32GB LPDDR5, 64GB eMMC, 8x SerDes GMSL2+, 2x USB 3.2, 2x RS232, 24VDC</p> <p>Artikel-Nr. PKBX5932-1<br/>ATC 3750-IP7-8M-64, NVIDIA JetsonAGX Orin IP67, 64GB LPDDR5, 64GB eMMC, 8x SerDes GMSL2+, 2x USB 3.2, 2x RS232, 24VDC</p> <p>Artikel-Nr. VKFX1202<br/>MIPI VBO SerDes CAM, 1.080p60, AR0234GSC, V-by-One HS, 15m Fakra cable, IP67</p> <p>Artikel-Nr. VKFX1203<br/>MIPI VBO SerDes CAM, 720p30, AR0144GSC, V-by-One HS, 15m Fakra cable, IP67</p> | <p>Artikel-Nr. PKBX5925<br/>ATC 3530-IP7-4C, NVIDIA Xavier NX, w/ 8GB LPDDR4, 1x HDMI, 4x PoE GbE, 1x GbE, 16GB eMMC</p> <p>Artikel-Nr. PKBX5926<br/>ATC 3530-IP7-4M, NVIDIA Xavier NX, w/ 8GB LPDDR4, 1x HDMI, 4x MIPI SerDes VBO, 2x GbE, 16GB eMMC</p> <p>Artikel-Nr. PKBX5927<br/>ATC 3530-IP7-4C, NVIDIA Xavier NX, w/ 16GB LPDDR4, 1x HDMI, 4x PoE GbE, 1x GbE, 16GB eMMC</p> <p>Artikel-Nr. PKBX5928<br/>ATC 3530-IP7-4M, NVIDIA JetsonXavierNX/16GB LPDDR4, 1xHDMI/4xMIPI VBO/2xGbE/2xRS232/2xUSB3.0/16GB eMMC</p> <p>Artikel-Nr. VKFX1202<br/>MIPI VBO SerDes CAM, 1.080p60, AR0234GSC, V-by-One HS, 15m Fakra cable, IP67</p> <p>Artikel-Nr. VKFX1203<br/>MIPI VBO SerDes CAM, 720p30, AR0144GS, V-by-One HS, 15m Fakra cable, IP67</p> | <p>Artikel-Nr. PKBX5929<br/>ATC 3540-IP7-4C, NVIDIA Jetson Orin NX SOM/8GB LPDDR5, 128GB NVMe/IP67/AI edge/4xGbE PoE/1xGbE/2xRS232/2xUSB3.2</p> <p>Artikel-Nr. PKBX5929-1<br/>ATC 3540-IP7-A4CR, NVIDIA Jetson Orin NX SOM/8GB LPDDR5, 128GB NVMe/IP67/AI edge/4xGbE PoE+(x-coded)/1xGbE(x-coded)/2xUSB3.2/24VDC</p> <p>Artikel-Nr. PKBX5929-2<br/>ATC 3540-IP7-4C-16, NVIDIA Jetson Orin NX SOM/8GB LPDDR5, 128GB NVMe/IP67/AI edge/4xGbE PoE/1xGbE/2xRS232/2xUSB3.2</p> <p>Artikel-Nr. PKBX5929-3<br/>ATC 3540-IP7-A4CR-16, NVIDIA Jetson Orin NX SOM/16GB LPDDR5, 128GB NVMe/IP67/AI edge/4xGbE PoE+(x-coded) /1xGbE(x-coded) /2xUSB3.2/24VDC</p> |

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**Advanced Telematics Computer 3200 (Fanless)**



**Vehicle Telematics Computer 7270**



|                                |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
|--------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Cooling System                 | Fanless                                                                                            | Fanless                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| Mounting System                | Wall Mount                                                                                         | Wall Mount                                                                                                                                                                                                                                                                                                                                                                                                             | - |
| CPU                            | NVIDIA® Jetson TX2 SOM up to 1.3 TFOPS<br>compute: NVIDIA® Denver 2 Dual Core & ARM® A57 Quad Core | 12/13th Gen Intel® Core™                                                                                                                                                                                                                                                                                                                                                                                               |   |
| CPU Socket                     | -                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
| Chipset                        | -                                                                                                  | Intel® R680E Chipset                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| BIOS                           | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Watchdog Timer                 | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Controller                     | -                                                                                                  | Intel® I226-IT                                                                                                                                                                                                                                                                                                                                                                                                         |   |
| Basic Equipment                | 8GB                                                                                                | 8GB                                                                                                                                                                                                                                                                                                                                                                                                                    |   |
| Maximum Equipment              | -                                                                                                  | 64GB                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| DRAM                           | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| SDRAM                          | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| DIMM / MemorySocket            | 128-bit LPDDR4, 1.600MHz                                                                           | 2 x SO-DIMM, DDR5-4800MHz                                                                                                                                                                                                                                                                                                                                                                                              |   |
| Compact Flash                  | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| SD                             | 1x                                                                                                 | 2 x 2.5" SSD (15mm height, removable)                                                                                                                                                                                                                                                                                                                                                                                  |   |
| HDD                            | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| HD SATA                        | 1x 2.5" SSD (15 mm height)                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Removeable Storage             | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Graphic Interface              | 256-Core Pascal integrated GPU @ 1.2GHz<br>Graphics Adapter, 1x HDMI                               | Intel® UHD graphics 770, 1.55GHz,<br>Max resolution: 4.096 x 2.160@60Hz(HDMI),<br>DirectX:12, OpenGL: 4.5<br>Graphics Adapter, 1 x VGA, up to<br>1920x1200@60Hz VGA/CRT, 1 x HDMI 2.0a/b, up<br>to 3840x2160@60Hz HDMI, 1 x DP,<br>4096x2304@60Hz DisplayPort                                                                                                                                                          | - |
| Interface COM                  | 2x RS232/422/485                                                                                   | 1x 2 x RS232 (DB9), 1x 2 x RS232/422/485 (DB9)                                                                                                                                                                                                                                                                                                                                                                         |   |
| CAN                            | 2x                                                                                                 | 2 x CAN FD, compatible with CAN2.0A/2.0B                                                                                                                                                                                                                                                                                                                                                                               |   |
| Galvanic Isolation             | x                                                                                                  | x                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Interface USB                  | 1x USB 2.0, 2x USB 3.0                                                                             | 6 x USB 3.2 Type A USB 3.0                                                                                                                                                                                                                                                                                                                                                                                             | - |
| Interface IEEE1394             | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      | - |
| Interface LAN                  | 2x 10/100/1000 BASE-T, optional WLAN, 2x PoE                                                       | 1 x M.2 3030 Key E socket (PCIe 3.0 x 2 & USB 2.0), Wi-Fi(default), Hailocard(option) 10/100/1000 BASE-T, PKBX5750: 2 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45)<br>PKBX5751: 4 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45)<br>PKBX5752: 8 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45) 2,5G - 5G BASE-T, Up to 4 WWAN/WLAN combinations<br>for mobile router applications WLAN, 2 x 2.5" SSD, 1 x NVMe ultra-speed SSD for data integrity PoE | - |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                          | u-blox NEO-M9N GNSS module for GPS/Gloness/QZSS/Galileo/Beidou GPIO                                                                                                                                                                                                                                                                                                                                                    | - |
| Mini PCIe                      | 1x                                                                                                 | 1 x mPCIe slot (PCIe 3.0, SATA 3.0, USB 2.0)                                                                                                                                                                                                                                                                                                                                                                           |   |
| Mini PCI                       | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Camera                         | 4-Channel MIPI SerDes CAM (optional)                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Video Input                    | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Resolution                     | 720p30 / 1.080p60                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Encoding                       | H.264 / H.265                                                                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Decoding/Playback              | H.264 / H.265                                                                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Bluetooth                      | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| eSATA                          | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Audio                          | 1x Mic-in, 1x Line-out                                                                             | Line-out, unbalance stereo, left & right channel, Line-in & MIC-in, stereo,DC-OUT: 12VDC@2A                                                                                                                                                                                                                                                                                                                            |   |
| Headphone                      | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| SIM Card                       | 2x Micro SIM slots                                                                                 | 4 x Nano SIM slots                                                                                                                                                                                                                                                                                                                                                                                                     |   |
| GPS                            | 1x U-blox NEO-M8N GPS module                                                                       | 1x u-blox NEO-M9N GNSS module, Optional DR (Dead Reckoning) function, NEO-M9V/M8L                                                                                                                                                                                                                                                                                                                                      |   |
| Mobile Communication 2G        | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      | - |
| Mobile Communication 3G        | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      | - |
| PCI                            | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| PCIe                           | -                                                                                                  | 2x PCIe 3.0                                                                                                                                                                                                                                                                                                                                                                                                            |   |
| PCI/104                        | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Operating System               | -                                                                                                  | Windows 10 64-bit/Windows 10 IOT 64-bit, Windows 11,Linux (Ubuntu 18.04)                                                                                                                                                                                                                                                                                                                                               |   |
| Operating System Support       | UBUNTU 18.04, NVIDIA® JetPack 4.4, MIPI SerDes Pack, custom-made SDK                               | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Input Voltage Nominal          | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Input Voltage Min/Max          | 9 to 36VDC                                                                                         | 9 to 36VDC                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| Output Voltage Nominal         | 12VDC                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Output Voltage Min/Max         | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Input Current                  | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Input Power                    | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Battery                        | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Operating Temperature          | -30°C to 70°C                                                                                      | -35°C~70°C                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| Extended Operating Temperature | -                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| Storage Temperature            | -40°C to 85°C                                                                                      | -40°C~85°C                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| Relative Humidity              | 10% to 90% (non-condensing)                                                                        | 10%~95% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                               |   |
| Protection                     | Vibration & Shock                                                                                  | MIL-STD-810H Vibration & Shock                                                                                                                                                                                                                                                                                                                                                                                         |   |
| Certification                  | CE, e13 (Vehicle), Class A FCC                                                                     | CE, e13 (Vehicle), Class A FCC                                                                                                                                                                                                                                                                                                                                                                                         | - |

|                  |                                 |                                         |   |
|------------------|---------------------------------|-----------------------------------------|---|
| Dimensions       | 180 x 156 x 60 mm (W x D x H)   | 260 x 210 x 81 mm (W x D x H)           |   |
|                  |                                 | 293mm x 210mm x 90mm (w/ mount bracket) |   |
| Weight           | 2,4 kg                          | 5,7kg, 6,8kg (w/ fan kit)               |   |
| Material         | -                               | -                                       |   |
| Typ. Application | Industrial, Automotive, Railway | Automotive                              | - |

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**Advanced Telematics Computer 3200  
(Fanless)**



**Vehicle Telematics Computer 7270**



| Bestellinformation | Advanced Telematics Computer 3200 (Fanless)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Vehicle Telematics Computer 7270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                    | <p>Artikel-Nr. PKBX5920<br/>ATC 3200, NVIDIA Jetson TX2 SOM w/ 8GB DDR4, 1x HDMI, 2x PoE GbE, 32GB eMMC</p> <p>Artikel-Nr. PKBX5921<br/>ATC 3200-4M, NVIDIA Jetson TX2 SOM w/ 8GB DDR4, 1x HDMI, 2x PoE GbE, 32GB eMMC, 4-ch MIPI SerDes</p> <p>Artikel-Nr. VKFX1200<br/>MIPI SerDes CAM 2.3M(G), 1.080p60, AR0234 , with Enclosure + ISP + VBO, optional with 5 m / 15 m Fakra cable</p> <p>Artikel-Nr. VKFX1201<br/>MIPI SerDes CAM 1M(G), 720p30, AR0144 , with Enclosure + ISP + VBO, optional with 5 m / 15 m / 25 m Fakra cable</p> | <p>Artikel-Nr. PKBX5750<br/>VTC 7270 12/13th Gen Intel Core, R680E, DDR5, 2x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe</p> <p>Artikel-Nr. PKBX5751<br/>VTC 7270-C4, 12/13th Gen Intel Core, R680E, DDR5, 4x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe</p> <p>Artikel-Nr. PKBX5752<br/>VTC 7270-C8, 12/13th Gen Intel Core, R680E, DDR5, 8x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe</p> <p>Artikel-Nr. PMME1110<br/>Hailo-8® Mini PCIe AI Acceleration Module, PCIe Gen 3-1-lane IF., x86, ARM aarch-64, -40°C - 85°C</p> <p>Artikel-Nr. PMME1100<br/>Google®Coral® Mini PCIe Accelerator, PCIe Gen2 interface, Google Edge® TPU ML, -20°C-85°C</p> | <p>Artikel-Nr. ,</p> |

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## Selection Guide KI-Automotive Box-PC



**Vehicle Telematics Computer  
7260-5HBIoT/7HBIoT**

**Vehicle Telematics Computer  
7260-5HCloT/7HCloT**

**Vehicle Telematics Computer  
7260-5GCIoT/7GCIoT**

|                                |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooling System                 | Fanless                                                                                                                                                                               | Fanless                                                                                                                                                                               | Fanless                                                                                                                                                                               |
| Mounting System                | Wall Mount                                                                                                                                                                            | Wall Mount                                                                                                                                                                            | Wall Mount                                                                                                                                                                            |
| CPU                            | Intel® Core™ 11th Gen. Tiger Lake UP3<br>Core i5-1145GRE, base frequency 1.5GHz/<br>2.6GHz, 4c<br>Core i7-1185GRE, base frequency 1.8GHz/<br>2.8GHz, 4c                               | Intel® Core™ 11th Gen. Tiger Lake UP3<br>Core i5-1145GRE, base frequency 1.5GHz/<br>2.6GHz, 4c<br>Core i7-1185GRE, base frequency 1.8GHz/<br>2.8GHz, 4c                               | Intel® Core™ 11th Gen. Tiger Lake UP3, Core<br>i5-1145GRE, Core i7-1185GRE                                                                                                            |
| CPU Socket                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Chipset                        | 8MB Intel® Smart Cache (PKBX5379),<br>12MB Intel® Smart Cache (PKBX5379-1)                                                                                                            | 8MB Intel® Smart Cache (PKBX5379-2),<br>12MB Intel® Smart Cache (PKBX5379-3)                                                                                                          | 8 MB Intel® Smart Cache (PKBX5378-2), 12 MB<br>Intel® Smart Cache (PKBX5378-3)                                                                                                        |
| BIOS                           | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Watchdog Timer                 | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Controller                     | Intel® I225-IT                                                                                                                                                                        | Intel® I225-IT                                                                                                                                                                        | -                                                                                                                                                                                     |
| Basic Equipment                | 4GBx4GB in default                                                                                                                                                                    | 4GBx4GB in default                                                                                                                                                                    | 4GBx4GB in default                                                                                                                                                                    |
| Maximum Equipment              | 64GB in max.                                                                                                                                                                          | 64GB in max.                                                                                                                                                                          | 64GB in max.                                                                                                                                                                          |
| DRAM                           | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| SDRAM                          | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| DIMM / MemorySocket            | 2 x SO-DIMM, DDR4-3200MHz                                                                                                                                                             | 2 x SO-DIMM, DDR4-3200MHz                                                                                                                                                             | 2 x SO-DIMM, DDR4-3200MHz                                                                                                                                                             |
| Compact Flash                  | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| SD                             | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| HDD                            | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| HD SATA                        | 1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for<br>data integrity                                                                                                                        | 1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for<br>data integrity                                                                                                                        | 1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for<br>data integrity                                                                                                                        |
| Removeable Storage             | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Graphic Interface              | Intel® Iris® Xe graphics, 1.3GHz Graphics<br>Adapter, 1x VGA, up to 2.560 x 1.600@60Hz<br>VGA/CRT, 1x 2.0a/b, up to 3.840 x 2.160@60Hz<br>HDMI, 1x DP, 4.096 x 2.304@60Hz DisplayPort | Intel® Iris® Xe graphics, 1.3GHz Graphics<br>Adapter, 1x VGA, up to 2.560 x 1.600@60Hz<br>VGA/CRT, 1x 2.0a/b, up to 3.840 x 2.160@60Hz<br>HDMI, 1x DP, 4.096 x 2.304@60Hz DisplayPort | Intel® Iris® Xe graphics, 1.3GHz Graphics<br>Adapter, 1x VGA, up to 2.560 x 1.600@60Hz<br>VGA/CRT, 1x 2.0a/b, up to 3.840 x 2.160@60Hz<br>HDMI, 1x DP, 4.096 x 2.304@60Hz DisplayPort |
| Interface COM                  | 1x 2 x full RS232 reserved for option (wafer<br>connector), 2x RS232/422/485                                                                                                          | 1x 2 x full RS232 reserved for option (wafer<br>connector), 2x RS232/422/485                                                                                                          | 1x 2 x full RS232 reserved for option (wafer<br>connector), 2x RS232/422/485                                                                                                          |
| CAN                            | 1 x CAN 2.0A/B                                                                                                                                                                        | 1 x CAN 2.0A/B                                                                                                                                                                        | 1 x CAN 2.0A/B                                                                                                                                                                        |
| Galvanic Isolation             | 2.5KV isolated                                                                                                                                                                        | 2.5KV isolated                                                                                                                                                                        | 2.5KV isolated                                                                                                                                                                        |
| Interface USB                  | 1x USB 2.0, 3x USB 3.0                                                                                                                                                                | 1x USB 2.0, 3x USB 3.0                                                                                                                                                                | 1x USB 2.0, 3x USB 3.0                                                                                                                                                                |
| Interface IEEE1394             | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Interface LAN                  | 5x 10/100/1000 BASE-T, 2-port independent<br>2.5GbE, RJ45 connector 2.5G - 5G BASE-T, 4 x<br>PR-SMA for WLAN WLAN, 4x PoE                                                             | 5x 10/100/1000 BASE-T, 4 x PR-SMA for WLAN<br>WLAN, 4x PoE                                                                                                                            | 5x 10/100/1000 BASE-T, 4 x PR-SMA for WLAN<br>WLAN, 4x PoE                                                                                                                            |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                                                                                             | GPIO, 4x Digital Input, 4x Digital Output                                                                                                                                             | GPIO, 4x Digital Input, 4x Digital Output                                                                                                                                             |
| Mini PCIe                      | 4x                                                                                                                                                                                    | 4x                                                                                                                                                                                    | 4x                                                                                                                                                                                    |
| Mini PCI                       | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Camera                         | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Video Input                    | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Resolution                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Encoding                       | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Decoding/Playback              | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Bluetooth                      | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| eSATA                          | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Audio                          | 2x Audio jack (Line-out & MIC-in)                                                                                                                                                     | 2x Audio jack (Line-out & MIC-in)                                                                                                                                                     | 2x Audio jack (Line-out & MIC-in)                                                                                                                                                     |
| Headphone                      | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| SIM Card                       | 2 x SIM slots (SIM1-1, SIM2-1)                                                                                                                                                        | 2 x SIM slots (SIM1-1, SIM2-1)                                                                                                                                                        | 2 x SIM slots (SIM1-1, SIM2-1)                                                                                                                                                        |
| GPS                            | 1x U-blox NEO-M8N GPS module, Optional DR<br>(Dead Reckoning) function, NEO-M8U/M8L                                                                                                   | 1x U-blox NEO-M8N GPS module, Optional DR<br>(Dead Reckoning) function, NEO-M8U/M8L                                                                                                   | 1x U-blox NEO-M8N GPS module, Optional DR<br>(Dead Reckoning) function, NEO-M8U/M8L                                                                                                   |
| Mobile Communication 2G        | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Mobile Communication 3G        | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| PCI                            | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| PCIe                           | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| PCI/104                        | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Operating System               | Windows 10 64-bit/Windows 10 IOT 64-bit,<br>Windows 11, Linux (Ubuntu 18.04)                                                                                                          | Windows 10 64-bit/Windows 10 IOT 64-bit,<br>Windows 11, Linux (Ubuntu 18.04)                                                                                                          | Windows 10 64-bit/Windows 10 IOT 64-bit,<br>Windows 11, Linux (Ubuntu 18.04)                                                                                                          |
| Operating System Support       | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Input Voltage Nominal          | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Input Voltage Min/Max          | 9 to 36VDC                                                                                                                                                                            | 9 to 36VDC                                                                                                                                                                            | 9 to 36VDC                                                                                                                                                                            |
| Output Voltage Nominal         | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Output Voltage Min/Max         | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Input Current                  | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Input Power                    | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Battery                        | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Operating Temperature          | -30°C~65°C (15W TDP)                                                                                                                                                                  | -40°C to 70°C(12W TDP base)                                                                                                                                                           | -40°C to 70°C(12W TDP base)                                                                                                                                                           |
| Extended Operating Temperature | -                                                                                                                                                                                     | -                                                                                                                                                                                     | -                                                                                                                                                                                     |
| Storage Temperature            | -40°C to 85°C                                                                                                                                                                         | -40°C to 85°C                                                                                                                                                                         | -40°C to 85°C                                                                                                                                                                         |
| Relative Humidity              | 10%~95% (non-condensing)                                                                                                                                                              | 10%~95% (non-condensing)                                                                                                                                                              | 10%~95% (non-condensing)                                                                                                                                                              |
| Protection                     | Vibration & Shock                                                                                                                                                                     | Vibration & Shock                                                                                                                                                                     | Vibration & Shock                                                                                                                                                                     |
| Certification                  | CE, e13 (Vehicle), MIL-STD-810G, Class A FCC                                                                                                                                          | CE, e13 (Vehicle), MIL-STD-810G, Class A FCC                                                                                                                                          | CE, e13 (Vehicle), MIL-STD-810G, Class A FCC                                                                                                                                          |
| Dimensions                     | 210 x 173 x 75 mm (W x D x H)                                                                                                                                                         | 210 x 173 x 75 mm (W x D x H)                                                                                                                                                         | 210 x 173 x 75 mm (W x D x H)                                                                                                                                                         |
| Weight                         | 3,5 kg                                                                                                                                                                                | 3,5 kg                                                                                                                                                                                | 3,5 kg                                                                                                                                                                                |
| Material                       | rugged Casing                                                                                                                                                                         | rugged Casing                                                                                                                                                                         | rugged Casing                                                                                                                                                                         |
| Typ. Application               | Automotive                                                                                                                                                                            | Automotive                                                                                                                                                                            | Automotive                                                                                                                                                                            |

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Selection Guide KI-Automotive Box-PC



Vehicle Telematics Computer  
7260-5HBIoT/7HBIoT

Vehicle Telematics Computer  
7260-5HCloT/7HCloT

Vehicle Telematics Computer  
7260-5GCloT/7GCloT

|                    |                                                                                                                                        |                                                                                                                                          |                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Bestellinformation | Artikel-Nr. PKBX5379<br>VTC 7260-5HBIoT Intel 11th Gen Tiger Lake UP3<br>i5, 2.5GbE, USB 2.0, USB3.2, 3xRS232/422/485,<br>SSD, mSATA   | Artikel-Nr. PKBX5379-2<br>VTC 7260-5HCloT Intel 11th Gen Tiger Lake UP3<br>i5, 4xPoE, 1xGbE, 2.0+3.2 USB,<br>2xRS232/422/485, SSD, mSATA | Artikel-Nr. PKBX5379-4<br>VTC 7260-5GCloT Intel 11th Gen Tiger Lake UP3<br>i5, 2.5GbE, USB 2.0, USB3.2, 3xRS232/422/485,<br>SSD, mSATA |
|                    | Artikel-Nr. PKBX5379-1<br>VTC 7260-7HBIoT Intel 11th Gen Tiger Lake UP3<br>i7, 2.5GbE, USB 2.0, USB3.2, 3xRS232/422/485,<br>SSD, mSATA | Artikel-Nr. PKBX5379-3<br>VTC 7260-7HCloT Intel 11th Gen Tiger Lake UP3<br>i7, 4xPoE, 1xGbE, 2.0+3.2 USB,<br>2xRS232/422/485, SSD, mSATA | Artikel-Nr. PKBX5379-5<br>VTC 7260-7GCloT Intel 11th Gen Tiger Lake UP3<br>i7, 2.5GbE, USB 2.0, USB3.2, 3xRS232/422/485,<br>SSD, mSATA |

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## Selection Guide KI-Automotive Box-PC



**Vehicle Telematics Computer  
7251-GCIoT**



**Vehicle Telematics Computer  
6222-GCIoT**



**nROK 6222-GCIoT Railway Box-PC**

|                                |                                                                                        |                                                                                        |                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Cooling System                 | Fanless                                                                                | Fanless                                                                                | Fanless                                                                                |
| Mounting System                | Wall Mount                                                                             | Wall Mount                                                                             | Wall Mount                                                                             |
| CPU                            | Intel® Core i7-8700T (8th Gen.) Coffee Lake processor, 6-Core, 2.4GHz                  | Intel Atom® E3950 processor 1.6GHz (up to 2.0GHz), Quad Core, 12W                      | Intel Atom® E3950 processor 1.6GHz (up to 2.0GHz), Quad Core, 12W                      |
| CPU Socket                     | -                                                                                      | -                                                                                      | -                                                                                      |
| Chipset                        | Intel® Q370 platform controller hub                                                    | -                                                                                      | -                                                                                      |
| BIOS                           | -                                                                                      | -                                                                                      | -                                                                                      |
| Watchdog Timer                 | -                                                                                      | -                                                                                      | -                                                                                      |
| Controller                     | -                                                                                      | -                                                                                      | -                                                                                      |
| Basic Equipment                | 8GB (for two channels)                                                                 | 4GB                                                                                    | 4GB                                                                                    |
| Maximum Equipment              | 64GB (for two channels)                                                                | 8GB                                                                                    | 8GB                                                                                    |
| DRAM                           | -                                                                                      | -                                                                                      | -                                                                                      |
| SDRAM                          | -                                                                                      | -                                                                                      | -                                                                                      |
| DIMM / MemorySocket            | Dual-Channel 260-pin DDR4 SO-DIMM                                                      | DDR3L SO-DIMM                                                                          | DDR3L SO-DIMM                                                                          |
| Compact Flash                  | -                                                                                      | -                                                                                      | -                                                                                      |
| SD                             | -                                                                                      | 1x                                                                                     | 1x                                                                                     |
| HDD                            | -                                                                                      | -                                                                                      | -                                                                                      |
| HD SATA                        | 2x 2,5" SATA 3.0 external SSD, 2x mSATA 3.0 (BIOS selection)                           | 1x 2,5" SSD SATA 3.0                                                                   | 1x 2,5" SSD SATA 3.0                                                                   |
| Removeable Storage             | -                                                                                      | -                                                                                      | -                                                                                      |
| Graphic Interface              | Google Edge TPU (Coral ML Accelerator Module)<br>Graphics Adapter, 1x VGA/CRT, 1x HDMI | Google Edge TPU (Coral ML Accelerator Module)<br>Graphics Adapter, 1x VGA/CRT, 2x HDMI | Google Edge TPU (Coral ML Accelerator Module)<br>Graphics Adapter, 1x VGA/CRT, 2x HDMI |
| Interface COM                  | 2x RS232, 1x RS232/422/485                                                             | 2x RS232, 1x RS422/485                                                                 | 2x RS232, 1x RS422/485                                                                 |
| CAN                            | 1x                                                                                     | 1x                                                                                     | 1x                                                                                     |
| Galvanic Isolation             | x                                                                                      | -                                                                                      | -                                                                                      |
| Interface USB                  | 4x USB 3.0                                                                             | 1x USB DOM to run OS USB, 2x USB 2.0, 1x USB 3.0                                       | 1x USB DOM to run OS USB, 2x via one M12 Interface USB 2.0, 1x USB 3.0                 |
| Interface IEEE1394             | -                                                                                      | -                                                                                      | -                                                                                      |
| Interface LAN                  | 5x 10/100/1000 BASE-T, optional WLAN, 4x PoE                                           | 5x 10/100/1000 BASE-T, 4x PoE                                                          | 5x 10/100/1000 BASE-T, 4x PoE                                                          |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                              | GPIO, 4x Digital Input, 4x Digital Output                                              | GPIO, 4x Digital Input, 4x Digital Output                                              |
| Mini PCIe                      | 4x                                                                                     | 3x                                                                                     | 3x                                                                                     |
| Mini PCI                       | -                                                                                      | -                                                                                      | -                                                                                      |
| Camera                         | -                                                                                      | -                                                                                      | -                                                                                      |
| Video Input                    | -                                                                                      | -                                                                                      | -                                                                                      |
| Resolution                     | -                                                                                      | -                                                                                      | -                                                                                      |
| Encoding                       | -                                                                                      | -                                                                                      | -                                                                                      |
| Decoding/Playback              | -                                                                                      | -                                                                                      | -                                                                                      |
| Bluetooth                      | -                                                                                      | -                                                                                      | -                                                                                      |
| eSATA                          | -                                                                                      | -                                                                                      | -                                                                                      |
| Audio                          | 1x Mic-in, 2x Line-out                                                                 | 1x Mic-in + 1x Line-out                                                                | 1x M8 for 1x Mic-in + 1x Line-out                                                      |
| Headphone                      | -                                                                                      | -                                                                                      | -                                                                                      |
| SIM Card                       | 6x SIM card sockets (4x WWAN + 8x SIM, BOM option)                                     | 2x externally SIM card sockets                                                         | 2x externally SIM card sockets                                                         |
| GPS                            | 1x U-blox NEO-M8N GPS module                                                           | 1x u-blox NEO-M8N GNSS module                                                          | 1x u-blox NEO-M8N GNSS module                                                          |
| Mobile Communication 2G        | -                                                                                      | -                                                                                      | -                                                                                      |
| Mobile Communication 3G        | -                                                                                      | -                                                                                      | -                                                                                      |
| PCI                            | -                                                                                      | -                                                                                      | -                                                                                      |
| PCIe                           | -                                                                                      | -                                                                                      | -                                                                                      |
| PCI/104                        | -                                                                                      | -                                                                                      | -                                                                                      |
| Operating System               | -                                                                                      | -                                                                                      | -                                                                                      |
| Operating System Support       | LINUX                                                                                  | Debian LINUX and other variants                                                        | Debian LINUX and other variants                                                        |
| Input Voltage Nominal          | -                                                                                      | -                                                                                      | 24VDC / 36VDC w/o isolation                                                            |
| Input Voltage Min/Max          | 9 to 36VDC                                                                             | 9 to 48VDC                                                                             | 9 to 48VDC w/o isolation                                                               |
| Output Voltage Nominal         | -                                                                                      | -                                                                                      | -                                                                                      |
| Output Voltage Min/Max         | -                                                                                      | -                                                                                      | -                                                                                      |
| Input Current                  | -                                                                                      | -                                                                                      | -                                                                                      |
| Input Power                    | -                                                                                      | -                                                                                      | -                                                                                      |
| Battery                        | -                                                                                      | -                                                                                      | -                                                                                      |
| Operating Temperature          | -30°C to 60°C                                                                          | -20°C to 60°C                                                                          | -20°C to 60°C                                                                          |
| Extended Operating Temperature | -                                                                                      | -                                                                                      | -                                                                                      |
| Storage Temperature            | -40°C to 80°C                                                                          | -40°C to 80°C                                                                          | -40°C to 80°C                                                                          |
| Relative Humidity              | 90% (non-condensing)                                                                   | 10% to 90% (non-condensing)                                                            | 10% to 90% (non-condensing)                                                            |
| Protection                     | Vibration & Shock                                                                      | Vibration & Shock                                                                      | Vibration & Shock                                                                      |
| Certification                  | CE, e13 (Vehicle), Class A FCC                                                         | CE, e13 (Vehicle), Class A FCC                                                         | CE, EN50155 (Railway), Class A FCC                                                     |
| Dimensions                     | 260 x 256 x 83,5 mm (W x D x H)                                                        | 260 x 196 x 66,5 mm (W x D x H)                                                        | 260 x 196 x 66,5 mm (W x D x H)                                                        |
| Weight                         | 4,2 kg                                                                                 | 3,2 kg                                                                                 | 3,4 kg                                                                                 |
| Material                       | -                                                                                      | -                                                                                      | -                                                                                      |
| Typ. Application               | Automotive                                                                             | Automotive                                                                             | Automotive, Railway                                                                    |

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19 Artikel aus dem Bereich  
KI-Automotive Box-PC  
wurden für das PDF ausgewählt.

Selection Guide KI-Automotive Box-PC



Vehicle Telematics Computer  
7251-GC IoT



Vehicle Telematics Computer  
6222-GC IoT



nROK 6222-GC IoT Railway Box-PC

|                    |                                                                                                                 |                                                                                                               |                                                                                                                        |
|--------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Bestellinformation | Artikel-Nr. PKBX5369<br>VTC 7251-GC IoT, Google Edge TPU, Intel Core i7-8700T 2.4GHz, 8GB DDR4, 1x VGA, 1x HDMI | Artikel-Nr. PKBX5389<br>VTC 6222-GC IoT, Google Edge TPU, Intel Atom E3950 1.6GHz, 4GB DDR3L, 1x VGA, 2x HDMI | Artikel-Nr. PKBX5634<br>nROK 6222-GC IoT Railway, Google Edge TPU, Intel Atom E3950 1.6GHz, 4GB DDR3L, 1x VGA, 2x HDMI |
|--------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|

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#### Vehicle Telematics Computer 7260-xC4

|                                |                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooling System                 | Fanless                                                                                                                                                                      |
| Mounting System                | Wall Mount                                                                                                                                                                   |
| CPU                            | Intel® Core™ 11th Gen. Tiger Lake UP3,Core i5-1145GRE,Core i7-1185GRE                                                                                                        |
| CPU Socket                     | -                                                                                                                                                                            |
| Chipset                        | 8 MB Intel® Smart Cache (PKBX5378), 12 MB Intel® Smart Cache(PKBX5378-1)                                                                                                     |
| BIOS                           | -                                                                                                                                                                            |
| Watchdog Timer                 | -                                                                                                                                                                            |
| Controller                     | -                                                                                                                                                                            |
| Basic Equipment                | 4GBx4GB in default                                                                                                                                                           |
| Maximum Equipment              | 64GB in max.                                                                                                                                                                 |
| DRAM                           | -                                                                                                                                                                            |
| SDRAM                          | -                                                                                                                                                                            |
| DIMM / MemorySocket            | 2 x SO-DIMM, DDR4-3200MHz                                                                                                                                                    |
| Compact Flash                  | -                                                                                                                                                                            |
| SD                             | -                                                                                                                                                                            |
| HDD                            | -                                                                                                                                                                            |
| HD SATA                        | 1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for data integrity                                                                                                                  |
| Removeable Storage             | -                                                                                                                                                                            |
| Graphic Interface              | Intel® Iris® Xe graphics, 1.3GHz Graphics Adapter, 1x VGA, up to 2.560 x 1.600@60Hz VGA/CRT, 1x 2.0a/b, up to 3.840 x 2.160@60Hz HDMI, 1x DP, 4.096 x 2.304@60Hz DisplayPort |
| Interface COM                  | 1x 2 x full RS232 reserved for option (wafer connector), 2x RS232/422/485                                                                                                    |
| CAN                            | 1 x CAN 2.0A/ 2.0B                                                                                                                                                           |
| Galvanic Isolation             | 2.5KV isolated                                                                                                                                                               |
| Interface USB                  | 1x USB 2.0, 3x USB 3.0                                                                                                                                                       |
| Interface IEEE1394             | -                                                                                                                                                                            |
| Interface LAN                  | 5x 10/100/1000 BASE-T, 4 x PR-SMA for WLAN WLAN, 4x PoE                                                                                                                      |
| Interface IO                   | GPIO, 4x Digital Input, 4x Digital Output                                                                                                                                    |
| Mini PCIe                      | 4x                                                                                                                                                                           |
| Mini PCI                       | -                                                                                                                                                                            |
| Camera                         | -                                                                                                                                                                            |
| Video Input                    | -                                                                                                                                                                            |
| Resolution                     | -                                                                                                                                                                            |
| Encoding                       | -                                                                                                                                                                            |
| Decoding/Playback              | -                                                                                                                                                                            |
| Bluetooth                      | -                                                                                                                                                                            |
| eSATA                          | -                                                                                                                                                                            |
| Audio                          | Line-out, unbalance stereo, left & right channel,MIC-in, stereo,Line-in reserved (wafer connector)                                                                           |
| Headphone                      | -                                                                                                                                                                            |
| SIM Card                       | 2 x SIM slots (SIM1-1, SIM2-1)                                                                                                                                               |
| GPS                            | 1x U-blox NEO-M8N GPS module,Optional DR (Dead Reckoning) function, NEO-M8U/M8L                                                                                              |
| Mobile Communication 2G        | -                                                                                                                                                                            |
| Mobile Communication 3G        | -                                                                                                                                                                            |
| PCI                            | -                                                                                                                                                                            |
| PCIe                           | -                                                                                                                                                                            |
| PCI/104                        | -                                                                                                                                                                            |
| Operating System               | Windows 10 64-bit/Windows 10 IOT 64-bit, Windows 11, Linux (Ubuntu 18.04)                                                                                                    |
| Operating System Support       | -                                                                                                                                                                            |
| Input Voltage Nominal          | -                                                                                                                                                                            |
| Input Voltage Min/Max          | 9 to 36VDC                                                                                                                                                                   |
| Output Voltage Nominal         | -                                                                                                                                                                            |
| Output Voltage Min/Max         | -                                                                                                                                                                            |
| Input Current                  | -                                                                                                                                                                            |
| Input Power                    | -                                                                                                                                                                            |
| Battery                        | -                                                                                                                                                                            |
| Operating Temperature          | -30°C~60°C (15W TDP & PoE)                                                                                                                                                   |
| Extended Operating Temperature | -                                                                                                                                                                            |
| Storage Temperature            | -40°C to 85°C                                                                                                                                                                |
| Relative Humidity              | 10%~95% (non-condensing)                                                                                                                                                     |
| Protection                     | Vibration & Shock                                                                                                                                                            |
| Certification                  | CE, e13 (Vehicle), MIL-STD-810G, Class A FCC                                                                                                                                 |
| Dimensions                     | 210 x 173 x 75 mm (W x D x H)                                                                                                                                                |
| Weight                         | 3,5 kg                                                                                                                                                                       |
| Material                       | rugged Casing                                                                                                                                                                |
| Typ. Application               | Automotive                                                                                                                                                                   |

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#### Vehicle Telematics Computer 7260-xC4

##### Bestellinformation

Artikel-Nr. PKBX5378

VTC 7260-5C4 Intel 11th Gen Tiger Lake UP3 i5,  
4xPoE+GbE, USB 2.0, USB3.2,  
2xRS232/422/485, SSD, mSATA

Artikel-Nr. PKBX5378-1

VTC 7260-7C4 Intel 11th Gen Tiger Lake UP3 i7,  
4xPoE+GbE, USB 2.0, USB3.2, 2xRS232/422/485,  
SSD, mSATA

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