

Selection Guide

Automotive Panel-PC

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13 Artikel aus dem Bereich
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Selection Guide Automotive Panel-PC



**5" Fanless Touch HMI Slim Panel-PC
Front IP65**



**DeltaOpenABK-PC 7" (openABK
Display)**



Vehicle Mount Computer 1100

LCD Size	5"	7"	7"
Active Area	-	153,4 x 92,44 mm (B x H)	-
Pixel Pitch	-	0,05 x 0,15 mm (B x H)	-
Aspect Ratio	16:9	16:9	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	960 x 540 QHD Special Resolution	WSVGA (1.024x600)	WVGA (800x480)
Display Colors	-	16M	-
Brightness	350cd/m²	850 cd/m²	400 cd/m²
Contrast Ratio	-	700:1	600:1
Response Time	-	20 ms (typ.)	-
Viewing Angle	-	V: 70° (T) / 75° (B); H: 75° (L) / 75° (R)	-
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	x	-
Gapless Optical Bonding	-	-	-
MTBF	-	715.458 hrs @ 25°C	-
TouchScreen	Projected Capacitive TouchScreen	PCT	x
Keypad	-	9x ergonomische Bedientaster	-
Cooling System	Fanless	-	Fanless
Mounting System	50 x 50 mm VESA, Optional Stand	4x M4 Gewinde, 1x 1/4" UNC Photogewinde Stand	VESA 75 VESA, Stand
CPU	ARM Cortex-A7 Dual Core 1GHz, MTK MT2601	Intel Atom x5-E3930 Dual Core, 1.3GHz (1.8GHz)	Intel Atom Dual Core E3825 1.33GHz
Chipset	-	-	-
Watchdog Timer	-	1 bis 255 Sekunden	-
Basic Equipment	512MB	-	2GB
Maximum Equipment	-	8GB	4GB
SDRAM	-	-	-
DIMM / MemorySocket	LPDDR2	1x 204-pin SODIMM DDR3L 1.866MHz	DDR3L SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HD SATA	-	-	1x SATAIII (available option 16G / 32G / 64GB)
Internal Storage	4GB eMMC	-	-
Graphic Interface	-	Intel HD Graphics Graphics Adapter, 1x Mini DP++ (intern) DisplayPort, 1x LCD-LVDS	-
Interface COM	1x RS232/422/485 (DB9 male)	1x RS-232/422/485 (intern)	1x RS232, 1x RS232/485
CAN	2.0b (optional)	(optional)	x
Interface USB	2x USB 2.0	2x USB 2.0, 2x (intern) USB 3.0	1x USB 3.0
Interface LAN	1x 10/100 BASE-T, IEEE 802.11a/b/g/n/ac WLAN	1x 10/100/1000 BASE-T, (optional) WLAN	10/100 BASE-T, Optional WLAN
Interface IO	4x 3,3V GPIO GPIO	1x 8-bit DIO (intern) GPIO	2x GPIO
Mini PCIe	-	1x	1x Mini PCIe, 1x Half Mini PCIe
Camera	Front: 2.0 MP	-	-
Bluetooth	4.1 (BLE, HS compliant)	(optional)	Optional
Audio	1x built-in microphone	Realtek ALC262-VC2-GR, 1x MIC-In	Line-Out, Mic-In
Speakers	1x built-in (0,8W)	1x 3W	2x
RFID	-	-	-
SIM Card	1x mini-SIM (2FF) slot	-	1x
GPS	Option: GPS mouse (GPS/GLONASS/Beidou)	(optional)	1x GPS u-blox NEO-M8N
Mobile Communication 2G	GSM+GPRS	-	-
Mobile Communication 3G	HSDPA+WCDMA	-	-
PCIe	-	-	1x Mini PCIe, 1x Half Mini PCIe
Operating System	-	WINDOWS 10 / 10 IoT Ent. / LINUX	Windows 10 / 8 Prof. / 7, WES8 / 7, WEC7, Linux Fedora (Kernel V3.2.0)
Operating System Support	Android 5.1	-	-
Input Voltage Nominal	-	-	26W
Input Voltage Min/Max	12 to 24VDC	9 bis 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-10°C to 50°C	-20°C bis 70°C	-20°C to 60°C
Storage Temperature	-20°C to 60°C	-30°C bis 80°C	-30°C to 80°C
Relative Humidity	5% to 90% RH	5 bis 90% RH	10% to 95%, non-condensing
Protection	Front bezel IP65	-	IP54 front panel
Certification	MIL-STD-810F, MIL-STD-810G, RoHS	-	CE, e13 (Vehicle), FCC
Dimensions	149,3 x 110 x 36,8 mm (W x H x D)	185,5 x 129,5 x 45,3 mm	213 x 145 x 50 mm (W x H x D)
Weight	0,350 kg	0,828 kg	1,3Kg
Material	-	POM Kunststoffgehäuse, Aluminium	Plastic PC, ABS with aluminum die casting heatsink
Typ. Application	Industrial, Automotive, Medical, Digital Signage	Automotive	Automotive

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**5" Fanless Touch HMI Slim Panel-PC
Front IP65**



**DeltaOpenABK-PC 7" (openABK
Display)**



Vehicle Mount Computer 1100

Bestellinformation	Artikel-Nr. PKPX8150 5" Fanless Touch HMI Slim Panel-PC w/ 512MB LPDDR2, QHD, ARM Cortex-A7 Dual Core 1.0GHz, 1x 10/100 Mbps LAN, 350 cd/m² Artikel-Nr. PKPX8150-1 5" Fanless Touch HMI Slim Panel-PC w/ 512MB LPDDR2, QHD, ARM Cortex-A7 Dual Core 1.0GHz, 1x 10/100 Mbps LAN, 350 cd/m², 3G	Artikel-Nr. PKPA2000 DeltaOpenABK-PC 7" (openABK Display), Intel Atom x5-E3930, 1.3GHz, 1.024x600, 850cd/m², PCT Artikel-Nr. PZUI1300 FlexRay / CAN Netzwerkinterface mit Anwendungssoftware, 1x USB 2.0 + 1x D-SUB9 mit FlexRay & CAN-Bus(FD) Interface Artikel-Nr. PKPZ6000 Option für DeltaOpenABK-PC 7" (openABK Display), TouchScreen-Displayschutzfolie zur Entspiegelung Artikel-Nr. PKPZ6010 Option für DeltaOpenABK-PC 7" (openABK Display), Lasergravur der Bedientasten Artikel-Nr. PKPO2100 Option für DeltaOpenABK-PC 7" (openABK Display), Zweikanal CAN / CAN-FD-Interface, miniPCIe inkl. Einbau Artikel-Nr. PPPC1201 DCAN-miniPCIe - FULL-CAN-Interface, Dual-CAN & J1708/J1939 Mini-PCIe Interface	Artikel-Nr. PKPA1001-1 7" VMC 1100-PR0 with resistive TouchScreen, GPS, Intel Atom E3825 1.33GHz, 2GB DDR3L, 1x RS232/485
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Vehicle Mount Computer 110/111



8" Fanless Touch HMI Slim Panel-PC
Typ 2



Vehicle Mount Computer 220

LCD Size	7"	8"	8"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	16:9	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	WSVGA (1.024x600)	720p (1.280x720)
Display Colors	-	-	-
Brightness	500 cd/m²	500 cd/m²	1.000cd/m²
Contrast Ratio	800:1	700:1 (typ.)	1.000:1
Response Time	-	-	-
Viewing Angle	-	70° / 75° / 75° / 75° (typ.)	170° / 170° (H / V)
Anti Reflection Glass	-	-	Anti-glare treatment
Strengthened Glass	-	-	-
Sunlight Readable	-	-	x
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	5-wire resistant touch	Projected Capacitive TouchScreen	PCT
Keypad	-	-	F1-F4 programmable function keys
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 / 100 VESA, Stand	75 x 75 mm VESA	VESA 75 VESA
CPU	ARM Cortex-A9 Dual Core 1GHz	ARM Cortex-A35 Quad Core up to 1.5GHz	ARM Cortex-A53 NXP i.MX 8M Quad Core, up to 1.3GHz
Chipset	-	Rockchip PX30	-
Watchdog Timer	-	-	-
Basic Equipment	2GB	2GB	4GB
Maximum Equipment	-	-	-
SDRAM	-	DDR4	-
DIMM / MemorySocket	DDR3L	-	LPDDR4 SDRAM 2.400MHz
Compact Flash	-	-	-
SD	1x Micro SDHC Slot	Micro SD card slot, maximum card 32GB	1x Micro SDXC Slot
HD SATA	-	-	1x eMMC 32GB (BOM optional 64GB)
Internal Storage	-	16GB eMMC	-
Graphic Interface	-	LCD-LVDS	4x composite video input Composite/CVBS
Interface COM	1x RS232/485	1x RS232 , 1x RS232/422/485	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)
CAN	CAN1 2.0B	OBD-II	1x Isolated CAN 2.0B
Interface USB	3x USB 2.0	3x USB 2.0	3x USB 2.0
Interface LAN	Optional WLAN	1x 10/100 BASE-T, IEEE 802.11 a/b/g/n/ac WLAN	1x 10/100/1000 BASE-T, WLAN
Interface IO	3x GPIO	(dry contract / galvanically isolated) GPIO, 3x Digital Input, 3x Digital Output	2x GPIO
Mini PCIe	1x Mini PCIe, 1x Half Mini PCIe	Mini PCIe interface	2x
Camera	-	Front: 8.0 MP CMOS MIPI-CSI type AF	-
Bluetooth	-	4.2 low power BLE	x
Audio	1x Line-out, 1x Mic-in, 1x internal Mic-In	1x built-in microphone	1x Line-out, 1x Mic-in
Speakers	2x 2W	1x built-in (1W)	2x Built-in 2W speakers
RFID	-	13,56MHz RFID & NFC reader	-
SIM Card	1x	1x nano SIM card	1x Micro-SIM slot
GPS	1x u-blox NEO-M8N module	optional	1x U-blox NEO-M8N
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe	-	-
Operating System	-	-	-
Operating System Support	Android 5.1 / Linux	Android 8.1 / (Linux Buildroot by request)	LINUX / ANDROID (by request)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36V auto-detection (Ignition detection)	9 to 60VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-30°C to 60°C
Storage Temperature	-30°C to 80°C	-20°C to 70°C	-40°C to 80°C
Relative Humidity	10% to 90%, non-condensing	5% to 90% RH @ 50°C (non-condensing)	10% to 90%, non-condensing
Protection	IP54 front panel	-	Full IP65
Certification	CE, e13 (Vehicle), Class B FCC	CE, E-Mark e13 (Vehicle), FCC	CE, e13 (Vehicle), Class B FCC
Dimensions	212,9 x 144,97 x 40 mm (W x H x D)	218,16 x 162,67 x 46,5 mm (W x H x D)	250 x 179 x 67,5 mm (W x H x D)
Weight	1,3kg	0,94 Kg	2,4 kg
Material	Plastic PC, ABS + Metal heat-sink	-	plastic
Typ. Application	Automotive	Industrial, Automotive, Medical, Digital Signage	Automotive, Marine, Outdoor

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Vehicle Mount Computer 110/111



**8" Fanless Touch HMI Slim Panel-PC
Typ 2**



Vehicle Mount Computer 220

Bestellinformation	Artikel-Nr. PKPA1003 7" VMC 110-1A w/Touch Screen, I/O on the back, ARM Cortex-A9,1GHz, DDR3L 2GB, 1.024x600, 500nits, Android Artikel-Nr. PKPA1003-1 7" VMC 110-1U w/Touch Screen, I/O on the back, ARM Cortex-A9,1GHz, DDR3L 2GB, Linux Artikel-Nr. PKPA1004 7" VMC 111-1A w/Touch Screen, I/O on the bottom, ARM Cortex-A9,1GHz, DDR3L 2GB, Android Artikel-Nr. PKPA1004-1 7" VMC 111-1U w/Touch Screen, I/O on the bottom, ARM Cortex-A9,1GHz, DDR3L 2GB, Linux	Artikel-Nr. PKPX8156 8" Fanless Touch HMI Slim Panel-PC Typ 2 w/ 2GB DDR4, WSVGA, ARM Cortex-A35 Quad Core, Rockchip PX30, WLAN, CAN, 500 cd/m², Android Artikel-Nr. PKPX8156-2 8" Fanless Touch HMI Slim Panel-PC Typ 2 w/ 2GB DDR4, WSVGA, ARM Cortex-A35 Quad Core, Rockchip PX30, WLAN, CAN, 500 cd/m², Android, 4G LTE	Artikel-Nr. PKPA1022 VMC 220-PC1, 8" w/ PCT, full IP65, ARM Cortex-A53 NXP i.MX 8M, 1.3GHz, 4GB LPDDR4, 1.280x720, 1.000nits
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Vehicle Mount Computer 2020



Vehicle Mount Computer 3000/3001



Vehicle Mount Computer 3020

LCD Size	8"	10.4"	10.4"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	720p (1.280x720)	XGA (1.024x768)	XGA (1.024x768)
Display Colors	-	-	-
Brightness	1.000cd/m²	400 cd/m²	1.200cd/m²
Contrast Ratio	1.000:1	500:1	900:1
Response Time	-	-	-
Viewing Angle	170° / 170° (H / V)	-	170° x 170° (H x V)
Anti Reflection Glass	Anti-glare treatment	-	-
Strengthened Glass	-	-	-
Sunlight Readable	x	-	x
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	PCT	x	5-wire resistive Touch Screen
Keypad	F1-F4 programmable function keys	-	F1 ~ F10 programmable function, LCD back light on/off, Volume and brightness control (+/-)
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 VESA	VESA 75/100 VESA, Stand	VESA 75/100 VESA, Stand
CPU	Intel Atom E3950 quad core 1.6GHz	Intel Atom D2550 1.86GHz	Intel Atom x5-E3930 dual core 1.8GHz
Chipset	-	Intel ICH10R	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	2GB	4GB
Maximum Equipment	8GB	4GB	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L 1.866MHz 204-Pin SO-DIMM	DDR3 SO-DIMM	DDR3L 1.600MHz SO-DIMM
Compact Flash	-	1x	-
SD	-	1x 2.5" SATA SSD	-
HD SATA	1x mSATA + 1x eMMC 64GB	-	1x 2.5" SATA SSD bay
Internal Storage	-	-	-
Graphic Interface	4x composite video input (optional) Composite/CVBS	-	-
Interface COM	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)	1x RS232, 1x RS232 (only PKPA1006)	2x RS232
CAN	1x Isolated CAN 2.0B	Optional	1x Isolated CAN 2.0B
Interface USB	2x USB 2.0 via 1x M12 USB 2.0, 1x USB 3.0 USB 3.0	2x USB 2.0	1x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, Optional WLAN	WLAN
Interface IO	2x GPIO	1x GPIO	2x GPIO
Mini PCIe	2x	2x	2x
Camera	-	-	-
Bluetooth	x	Optional	-
Audio	1x Line-out, 1x Mic-in	Line-Out, Mic-In	1x Line-out, 1x Mic-in
Speakers	2x Built-in 2W speakers	-	2x Built-in 2W speakers
RFID	-	-	-
SIM Card	2x Nano SIM slots	-	1x SIM slot
GPS	1x U-blox NEO-M8N	1x	1x U-blox NEO-M8N (optional)
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	2x Mini-PCIe socket	2x Mini PCIe
Operating System	-	-	-
Operating System Support	Windows 10, Linux	WES2009/WES 7E/ XP Pro Embedded/ Win7 Pro Embedded	Windows 10 / Linux
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 60VDC	9 to 36VDC	9 to 60VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-30°C to 60°C	-30°C to 60°C	-20°C to 70°C
Storage Temperature	-40°C to 80°C	-30°C to 70°C	-30°C to 80°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%,non condensing	10% to 90%, non-condensing
Protection	Full IP65	IP65 (Optional)	IP65
Certification	CE, e13 (Vehicle), Class B FCC	CE, FCC	CE, e13 (Vehicle), Class B FCC
Dimensions	250 x 179 x 67,5 mm (W x H x D)	290 x 230 x 68 mm (W x D x H)	289,98 x 229,97 x 77,95 mm (W x H x D)
Weight	2,6 kg	3kg	3kg
Material	plastic	Die-cast aluminum	Die-cast aluminum
Typ. Application	Automotive, Marine, Outdoor	Automotive	Automotive

Selection Guide Automotive Panel-PC



Vehicle Mount Computer 2020



Vehicle Mount Computer 3000/3001



Vehicle Mount Computer 3020

Bestellinformation

Artikel-Nr. PKPA1020
8" VMC 2020-PC1 w/ projected capacitive
TouchScreen, full IP65, Intel Atom® E3950,
1.6GHz, 4GB DDR3L, 1.280x720, 1.000nits

Artikel-Nr. PKPA1006-3
10,4" VMC 3000-R w/ TouchScreen, Intel Atom
D2550 1.86GHz, 2xMini PCIe, 1xCfast, front IP65,
XGA, 400 cd/m², 2x serial

Artikel-Nr. PKPA1006-4
10,4" VMC 3001-R w/ TouchScreen, Intel Atom
D2550 1.86GHz, 2xMini PCIe, 1xCfast, full IP65,
XGA, 400 cd/m², 2x serial

Artikel-Nr.
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Artikel-Nr. PKPA1007-1
10,4" VMC 3020-2A01, w/ resistive TouchScreen,
Intel Atom x5-E3930 dual core 1.8GHz, 4GB
DDR3L, front IP65, 1.024x768, 1.200nits

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Vehicle Mount Computer 3021



Vehicle Mount Computer 4020



12,1" DeltaTough Panel-PC Type 1

LCD Size	10,4"	12,1"	12,1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	XGA (1.024x768)	WXGA (1.280x800)
Display Colors	-	-	-
Brightness	1.200cd/m²	1.200cd/m²	1.000cd/m²
Contrast Ratio	900:1	750:1	1.000:1
Response Time	-	-	-
Viewing Angle	170° x 170° (H x V)	170° / 170° (H / V)	178° / 178° (H / V)
Anti Reflection Glass	-	-	Anti-Reflective and Anti-Fingerprint Coating
Strengthened Glass	-	-	-
Sunlight Readable	x	x	x
Gapless Optical Bonding	-	-	x
MTBF	-	-	55.000 hours
TouchScreen	5-wire resistive Touch Screen	5-wire resistive Touch Screen	PCT
Keypad	F1 ~ F10 programmable function, LCD back light on/off, Volume and brightness control (+/-)	F1 ~ F10 programmable function, LCD back light on/off, Volume and brightness control (+/-)	F1~F4 programmable function keys
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 VESA	VESA 75 VESA	VESA 75 VESA
CPU	Intel Atom x7-3950 dual core, 1.6GHz	Intel Atom x7-3950 dual core, 1.6GHz	Intel Atom E3845 Automotive Grade, 1.91Ghz
Chipset	-	-	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	8GB	8GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L 1.600MHz SO-DIMM	DDR3L 1.600MHz SO-DIMM	DDR3L 1.866MHz 204-Pin SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HD SATA	1x 2.5" SATA SSD bay	1x 2.5" SATA SSD bay	1x mSATA + 1x eMMC 64GB
Internal Storage	-	-	-
Graphic Interface	-	-	4x composite video input (optional) Composite/CVBS
Interface COM	1x RS232(Tx/Rx)/RS422/RS485 via external (22-pin) multi port cable, 1x RS232/422/485 via external (21-pin) multi port cable	1x RS232(Tx/Rx)/RS422/RS485 via external (22-pin) multi port cable or RS232/422/485 via DB9, 1x RS232/422/485 via external (18-pin) multi port cable (optional), 1x RS232/422/485 via external (21-pin) multi port cable or RS232/422/485 (26-pin)	2x RS232
CAN	2x Isolated CAN 2.0B via external (21-pin) multi port cable	2x Isolated CAN 2.0B via external (21-pin) multi port cable or via 26-pin connector	2x Isolated CAN 2.0B
Interface USB	1x (type A) USB 2.0	2x or 3x (type A) USB 2.0	4x USB 3.0
Interface LAN	1x via (22-pin) connector 10/100/1000 BASE-T, Optional via WLAN antenna WLAN	2x via (8-pin / 22-pin)connector or 2x via RJ45 10/100/1000 BASE-T, Optional via WLAN antenna WLAN	2x via RJ45 10/100/1000 BASE-T, 802.11 A/B/G/N/AC (2.4G and 5G) WLAN
Interface IO	2x via external (22-pin) multi port cable GPIO	2x via external (22-pin) multi port cable or via 26-pin connector GPIO	1x 8 Bit Programable GPIO GPIO
Mini PCIe	4x	4x	-
Camera	-	-	-
Bluetooth	Optional	Optional	Bluetooth 4.0
Audio	1x Line-out, 1x Mic-in via external (21-pin) multi port cable	1x Line-out, 1x Mic-in via external M12 (21-pin) multi port cable	1x Output
Speakers	2x Built-in 2W speakers	2x Built-in 2W speakers	Built-in Waterproof Speaker x 2, Audio Input x 1,
RFID	1x	1x	-
SIM Card	2x micro SIM slot	2x micro SIM slot	Micro SD Card Slot
GPS	1x U-blox LISA-U200 (optional)	1x U-blox LISA-U200 (optional)	1x U-blox NEO-M8N
Mobile Communication 2G	Optional GSM+GPRS	Optional GSM+GPRS	-
Mobile Communication 3G	Optional HSDPA+UMTS	Optional HSDPA+UMTS	-
PCIe	4x Mini PCIe	4x Mini PCIe	-
Operating System	Windows 10 / Linux	Windows 10 / Linux	-
Operating System Support	-	-	- Windows 10 Professional 64Bit - Windows 10 Home 64Bit
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 60VDC	9 to 60VDC	9 to 60VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	>40W
Operating Temperature	-20°C to 70°C	-30°C to 60°C	-30°C to 85°C
Storage Temperature	-30°C to 80°C	-30°C to 70°C	-30°C to 85°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	5% to 95%, non-condensing
Protection	Complete IP65 housing, Shock + Vibration, Reverse-, over voltage- and under voltage-protection	Complete IP65 or IP65 w/o covering the bottom, Shock + Vibration, Reverse-, over voltage- and under voltage-protection	Vibration/Shock Resistant, IK08 Impact Resistant, IP65/NEMA4
Certification	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), FCC, RoHS
Dimensions	289,98 x 229,97 x 68,7 mm (W x H x D)	339,97 x 261,97 x 75,1 mm (W x H x D)	312 x 230 x 67,2 mm (W x H x D)
Weight	3,5 Kg	5 Kg	3,2 kg
Material	Die-cast aluminum	Die-cast aluminum	Rugged Aluminum and Stainless-Steel
Typ. Application	Automotive	Automotive	Automotive, Marine, Outdoor

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Selection Guide Automotive Panel-PC



Vehicle Mount Computer 3021



Vehicle Mount Computer 4020



12,1" DeltaTough Panel-PC Type 1

Bestellinformation

Artikel-Nr. PKPA1009-3
VMC 3021-4A11, 10,4" w/ resistive TouchScreen,
Intel Atom® x7-E3950, 1.6GHz, 4GB DDR3L, full
IP65, 1.024x768, 1.200nits

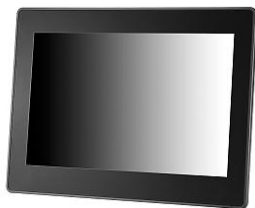
Artikel-Nr. PKPA1011
12,1" VMC 4020-4A0 w/ resistive TouchScreen,
Intel Atom® x7-E3950, 1.6GHz, 4GB DDR3L, front
IP65, 1.024x768, 1.200nits

Artikel-Nr. PKPA1011-1
12,1" VMC 4020-4A1 w/ resistive TouchScreen,
Intel Atom® x7-E3950, 1.6GHz, 4GB DDR3L, full
IP65, 1.024x768, 1.200nits

Artikel-Nr. PKPA1030
12,1" DeltaTough Panel-PC Type 1, IP65, IP67,
IK08, PCT, Intel Atom E3845 QC 1.91Ghz, 1280 x
800, GPIO, CANBUS

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Automotive Panel-PC
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12,1" DeltaTough Panel-PC Type 2

LCD Size	12,1"
Active Area	-
Pixel Pitch	-
Aspect Ratio	-
Display Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)
Display Colors	-
Brightness	1.000cd/m²
Contrast Ratio	1.000:1
Response Time	-
Viewing Angle	178° / 178° (H / V)
Anti Reflection Glass	Anti-Reflective and Anti-Fingerprint Coating
Strengthened Glass	-
Sunlight Readable	x
Gapless Optical Bonding	x
MTBF	55.000 hours
TouchScreen	PCT
Keypad	F1-F4 programmable function keys
Cooling System	Fanless
Mounting System	VESA 75 VESA
CPU	Intel Atom E3845 Automotive Grade, 1.91Ghz
Chipset	-
Watchdog Timer	-
Basic Equipment	4GB
Maximum Equipment	8GB
SDRAM	-
DIMM / MemorySocket	DDR3L 1.866MHz 204-Pin SO-DIMM
Compact Flash	-
SD	-
HD SATA	1x mSATA + 1x eMMC 64GB
Internal Storage	-
Graphic Interface	4x composite video input (optional) Composite/CVBS
Interface COM	2x RS232
CAN	-
Interface USB	4x USB 3.0
Interface LAN	2x via RJ45 10/100/1000 BASE-T, 802.11 A/B/G/N/AC (2.4G and 5G) WLAN 1x 8 Bit Programable GPIO GPIO
Interface IO	-
Mini PCIe	-
Camera	-
Bluetooth	Bluetooth 4.0
Audio	1x Output
Speakers	Built-in Waterproof Speaker x 2, Audio Input x 1,
RFID	-
SIM Card	Micro SD Card Slot
GPS	1x U-blox NEO-M8N
Mobile Communication 2G	-
Mobile Communication 3G	-
PCIe	-
Operating System	-
Operating System Support	- Windows 10 Professional 64Bit - Windows 10 Home 64Bit
Input Voltage Nominal	-
Input Voltage Min/Max	9 to 60VDC
Output Voltage Nominal	-
Output Voltage Min/Max	-
Input Current	>40W
Operating Temperature	-30°C to 85°C
Storage Temperature	-30°C to 85°C
Relative Humidity	5% to 95%, non-condensing
Protection	Vibration/Shock Resistant, IK08 Impact Resistant, IP65/NEMA4
Certification	CE, e13 (Vehicle), FCC, RoHS
Dimensions	312 x 230 x 67,2 mm (W x H x D)
Weight	3,2 kg
Material	Rugged Aluminum and Stainless-Steel
Typ. Application	Automotive, Marine, Outdoor

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12,1" DeltaTough Panel-PC Type 2

Bestellinformation

Artikel-Nr. PKPA1031
12,1" DeltaTough Panel-PC Type 2, IP65, IP67,
IK08, PCT, Intel Atom E3845 QC 1.91Ghz, 1280 x
800, GPIO

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