

Selection Guide Panel Computer

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5" Fanless Touch HMI Slim Panel-PC Front IP65



DeltaOpenABK-PC 7" (openABK Display)



VMC 1110-PR01

LCD Size	5"	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	-
Display Resolution	960 x 540 QHD Special Resolution	WSVGA (1.024x600)	-
Display Colors	-	16M	
Brightness	350cd/m²	850 cd/m²	
Contrast Ratio	-	700:1	
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	
Keypad	-	9x ergonomische Bedientaster	
Cooling System	Fanless		
Mounting System	50 x 50 mm VESA, Optional Stand	4x M4 Gewinde, 1x 1/4" UNC Photogewinde Stand	-
CPU	ARM Cortex-A7 Dual Core 1GHz, MTK MT2601	Intel Atom x5-E3930 Dual Core, 1.3GHz (1.8GHz)	
Chipset	-	-	
Watchdog Timer	-	1 bis 255 Sekunden	
Basic Equipment	512MB	-	
Maximum Equipment	-	8GB	
SDRAM	-	-	
DIMM / MemorySocket	LPDDR2	1x 204-pin SODIMM DDR3L 1.866MHz	
Compact Flash	-		
SD	-		
HD SATA	-		
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)	
CAN	2.0b (optional)	(optional)	
Interface USB	2x USB 2.0	2x USB 2.0, 2x (intern) 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	-
Interface IO	4x 3.3V GPIO GPIO	1x 8-bit DIO (intern) GPIO	-
Mini PCIe	-	1x	
Camera	Front: 2.0 MP	-	
Bluetooth	4.1 (BLE, HS compliant)	(optional)	
Audio	1x built-in microphone	Realtek ALC262-VC2-GR, 1x MIC-In	
Speakers	1x built-in (0,8W)	1x 3W	
RFID	-	-	
SIM Card	1x mini-SIM (2FF) slot	-	
GPS	Option: GPS mouse (GPS/GLONASS/Beidou)	(optional)	
Mobile Communication 2G	GSM+GPRS	-	-
Mobile Communication 3G	HSDPA+WCDMA	-	-
PCIe	-		
Operating System	-	WINDOWS 10 / 10 IoT Ent. / LINUX	
Operating System Support	Android 5.1		
Input Voltage Nominal	-	-	
Input Voltage Min/Max	12 to 24VDC	9 bis 36VDC	
Output Voltage Nominal	-	-	
Output Voltage Min/Max	-	-	
Input Current	-	-	
Operating Temperature	-10°C to 50°C	-20°C bis 70°C	
Storage Temperature	-20°C to 60°C	-30°C bis 80°C	
Relative Humidity	5% to 90% RH	5 bis 90% RH	
Protection	Front bezel IP65	-	
Certification	MIL-STD-810F, MIL-STD-810G, RoHs	-	-
Dimensions	149,3 x 110 x 36,8 mm (W x H x D)	185,5 x 129,5 x 45,3 mm	
Weight	0,350 kg	0,828 kg	
Material	-	POM Kunststoffgehäuse, Aluminium	
Typ. Application	Industrial, Automotive, Medical, Digital Signage	Automotive	-

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5" Fanless Touch HMI Slim Panel-PC Front IP65



DeltaOpenABK-PC 7" (openABK Display)



VMC 1110-PR01

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. PKPA1025

VMC 1110-PR01, 7" with resistive TouchScreen, GPS, 1000 cd/m², Intel Dual Core x7211RE 1.0GHz, 8GB DDR5, 1x RS232/485, 1x HDMI, 1x DB15 MultiPort

Artikel-Nr. BPLK1275

Cable Kit for VMC 1110-PR0, 1x DB15 to COM Cable, 1x M12 to LAN Cable, 1x DB15 to Multi Cable

Artikel-Nr. BPLK1276

COM Cable for VMC 1110-PR0, 1x DB15 to 3x DB9, L=150mm

Artikel-Nr. BPLK1277

LAN Cable for VMC 1110-PR0, M12 x Coded to RJ45/F, L=150mm

Artikel-Nr. BPLK1278

MULTI Cable for VMC 1110-PR0 DB15 to DB9, 1x USB2.0, 3x GPI, 2x GPO, 1x Isol. CAN FD, PWM+Direction+GND

Artikel-Nr. BPLK1274

Power Cable Waterproof for VMC 110/111/1110-PR0, M10.5 5-Pin to open end, L=130mm

Artikel-Nr. NASX5258

Power Adapter for VMC 110-1A, VMC 111-1A, VMC 1110-PR0, 9V/6.32A,120W AC/DC power adapter w/ 3-pin Phoenix

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Vehicle Mount Computer 1100



Vehicle Mount Computer 110/111



8" Fanless Touch HMI Slim Panel-PC Typ 2

LCD Size	7"	7"	8"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WVGA (800x480)	WSVGA (1.024x600)	WSVGA (1.024x600)
Display Colors	-	-	-
Brightness	400 cd/m²	500 cd/m²	500 cd/m²
Contrast Ratio	600:1	800:1	700:1 (typ.)
Response Time	-	-	-
Viewing Angle	-	-	70° / 75° / 75° / 75° (typ.)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	x	5-wire resistant touch	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 VESA, Stand	VESA 75 / 100 VESA, Stand	75 x 75 mm VESA
CPU	Intel Atom Dual Core E3825 1.33GHz	ARM Cortex-A9 Dual Core 1GHz	ARM Cortex-A35 Quad Core up to 1.5GHz
Chipset	-	-	Rockchip PX30
Watchdog Timer	-	-	-
Basic Equipment	2GB	2GB	2GB
Maximum Equipment	4GB	-	-
SDRAM	-	-	DDR4
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L	-
Compact Flash	-	-	-
SD	-	1x Micro SDHC Slot	Micro SD card slot, maximum card 32GB
HD SATA	1x SATAIII (available option 16G / 32G / 64GB)	-	-
Internal Storage	-	-	16GB eMMC
Graphic Interface	-	-	LCD-LVDS
Interface COM	1x RS232, 1x RS232/485	1x RS232/485	1x RS232, 1x RS232/422/485
CAN	x	CAN1 2.0B	OBD-II
Interface USB	1x USB 3.0	3x USB 2.0	3x USB 2.0
Interface LAN	10/100 BASE-T, Optional WLAN	Optional WLAN	1x 10/100 BASE-T, IEEE 802.11 a/b/g/n/ac WLAN
Interface IO	2x GPIO	3x GPIO	(dry contact / galvanically isolated) GPIO, 3x Digital Input, 3x Digital Output
Mini PCIe	1x Mini PCIe, 1x Half Mini PCIe	1x Mini PCIe, 1x Half Mini PCIe	Mini PCIe interface
Camera	-	-	Front: 8.0 MP CMOS MIPI-CSI type AF
Bluetooth	Optional	-	4.2 low power BLE
Audio	Line-Out, Mic-In	1x Line-out, 1x Mic-in, 1x internal Mic-In	1x built-in microphone
Speakers	2x	2x 2W	1x built-in (1W)
RFID	-	-	13.56MHz RFID & NFC reader
SIM Card	1x	1x	1x nano SIM card
GPS	1x GPS u-blox NEO-M8N	1x u-blox NEO-M8N module	optional
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x Mini PCIe, 1x Half Mini PCIe	2x Mini PCIe	-
Operating System	Windows 10 / 8 Prof. / 7, WES8 / 7, WEC7, Linux Fedora (Kernel V3.2.0)	-	-
Operating System Support	-	Android 5.1 / Linux	Android 8.1 / (Linux Buildroot by request)
Input Voltage Nominal	26W	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36V auto-detection (Ignition detection)
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 60°C	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-30°C to 80°C	-30°C to 80°C	-20°C to 70°C
Relative Humidity	10% to 95%, non-condensing	10% to 90%, non-condensing	5% to 90% RH @ 50°C (non-condensing)
Protection	IP54 front panel	IP54 front panel	-
Certification	CE, e13 (Vehicle), FCC	CE, e13 (Vehicle), Class B FCC	CE, E-Mark e13 (Vehicle), FCC
Dimensions	213 x 145 x 50 mm (W x H x D)	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)
Weight	1,3Kg	1,3kg	0,94 Kg
Material	Plastic PC, ABS with aluminum die casting heatsink	Plastic PC, ABS + Metal heat-sink	-
Typ. Application	Automotive	Automotive	Industrial, Automotive, Medical, Digital Signage



Vehicle Mount Computer 1100



Vehicle Mount Computer 110/111



8" Fanless Touch HMI Slim Panel-PC
Typ 2

Bestellinformation

Artikel-Nr. PKPA1001-1
7" VMC 1100-PR0 with resistive TouchScreen,
GPS, Intel Atom E3825 1.33GHz, 2GB DDR3L, 1x
RS232/485

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

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Vehicle Mount Computer 220



Vehicle Mount Computer 200



Vehicle Mount Computer 2030

LCD Size	8"	8"	8"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	720p (1.280x720)	720p (1.280x720)	720p (1.280x720)
Display Colors	-	-	-
Brightness	1.000cd/m ²	1.000cd/m ²	1.000cd/m ²
Contrast Ratio	1.000:1	1.000:1	1.000:1
Response Time	-	-	-
Viewing Angle	170° / 170° (H / V)	170° / 170° (H / V)	170° / 170° (H / V)
Anti Reflection Glass	Anti-glare treatment	Anti-glare treatment	Anti-glare treatment
Strengthened Glass	-	-	-
Sunlight Readable	x	x	x
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	PCT	PCT	PCT
Keypad	F1-F4 programmable function keys	F1-F4 programmable function keys	F1-F4 programmable function keys
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 VESA	VESA 75 VESA	VESA 75 VESA
CPU	ARM Cortex-A53 NXP i.MX 8M Quad Core, up to 1.3GHz	Intel Atom E3950 quad core 1.6GHz	ARM Cortex-A53 NXP i.MX 8M Quad Core, up to 1.3GHz
Chipset	-	-	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	-	8GB	-
SDRAM	-	-	-
DIMM / MemorySocket	LPDDR4 SDRAM 2.400MHz	DDR3L 1.866MHz 204-Pin SO-DIMM	LPDDR4 SDRAM 2.400MHz
Compact Flash	-	-	-
SD	1x Micro SDXC Slot	-	1x Micro SDXC Slot
HD SATA	1x eMMC 32GB (BOM optional 64GB)	1x mSATA + 1x eMMC 64GB	1x eMMC 32GB (BOM optional 64GB)
Internal Storage	-	-	-
Graphic Interface	4x composite video input Composite/CVBS	4x composite video input (optional) Composite/CVBS	4x composite video input Composite/CVBS
Interface COM	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)
CAN	1x Isolated CAN 2.0B	1x Isolated CAN 2.0B	1x Isolated CAN 2.0B
Interface USB	3x USB 2.0	2x USB 2.0 via 1x M12 USB 2.0, 1x USB 3.0 USB 3.0	3x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, WLAN
Interface IO	2x GPIO	2x GPIO	2x GPIO
Mini PCIe	2x	2x	2x
Camera	-	-	-
Bluetooth	x	x	x
Audio	1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in
Speakers	2x Built-in 2W speakers	2x Built-in 2W speakers	2x Built-in 2W speakers
RFID	-	-	-
SIM Card	1x Micro-SIM slot	2x Nano SIM slots	1x Micro-SIM slot
GPS	1x U-blox NEO-M8N	1x U-blox NEO-M8N	1x U-blox NEO-M8N
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	LINUX / ANDROID (by request)	Windows 10, Linux	LINUX / ANDROID (by request)
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	-	-	-
Operating Temperature	-30°C to 60°C	-30°C to 60°C	-30°C to 60°C
Storage Temperature	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	Full IP65	Full IP65	Full IP65
Certification	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC
Dimensions	250 x 179 x 67,5 mm (W x H x D)	250 x 179 x 67,5 mm (W x H x D)	250 x 179 x 67,5 mm (W x H x D)
Weight	2,4 kg	2,6 kg	2,4 kg
Material	plastic	plastic	plastic
Typ. Application	Automotive, Marine, Outdoor	Automotive, Marine, Outdoor	Automotive, Marine, Outdoor

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Vehicle Mount Computer 220



Vehicle Mount Computer 2020



Vehicle Mount Computer 2030

Bestellinformation

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

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. PKPA1023

VMC 2030-PC1, 8" w/ PCT, full IP65, Intel Atom®
x7433RE quad-core, 8GB DDR5, 1.280x720,
1.000nits

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Vehicle Mount Computer 3030



Vehicle Mount Computer 320-AC0



Vehicle Mount Computer 3000/3001

LCD Size	10,1"	10,1"	10,4"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WXGA (1.280x800)	XGA (1.024x768)
Display Colors	-	-	-
Brightness	1.000cd/m ²	1.000cd/m ²	400 cd/m ²
Contrast Ratio	800:1	800:1	500:1
Response Time	-	-	-
Viewing Angle	170° x 170° (H x V)	170° x 170° (H x V)	-
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	x	x	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	Projected capacitive	Projected capacitive	x
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 (+/-)	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75 VESA	VESA 75 VESA	VESA 75/100 VESA, Stand
CPU	Intel Atom® processor x7433RE, 1.5GHz, 9W, 4 core	NXP i.MX 8M Plus processor 1.6 GHz (Quad Arm® Cortex®-A53)	Intel Atom D2550 1.86GHz
Chipset	-	-	Intel ICH10R
Watchdog Timer	-	-	-
Basic Equipment	4GB	4GB	2GB
Maximum Equipment	8GB	8GB	4GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L 1.600MHz SO-DIMM	DDR3L 1.600MHz SO-DIMM	DDR3 SO-DIMM
Compact Flash	-	-	1x
SD	-	-	1x 2.5" SATA SSD
HD SATA	1x 2.5" SATA SSD bay	1x 2.5" SATA SSD bay	-
Internal Storage	-	-	-
Graphic Interface	-	-	-
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, 1x RS232/422/485 via external (21-pin) multi port cable	1x RS232, 1x RS232 (only PKPA1006)
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	Optional
Interface USB	1x (type A) USB 2.0	1x (type A) USB 2.0	2x USB 2.0
Interface LAN	1x via (22-pin) connector 10/100/1000 BASE-T, Optional via WLAN antenna WLAN	1x via (22-pin) connector 10/100/1000 BASE-T, Optional via WLAN antenna WLAN	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	2x via external (22-pin) multi port cable GPIO	2x via external (22-pin) multi port cable GPIO	1x GPIO
Mini PCIe	4x	4x	2x
Camera	-	-	-
Bluetooth	Optional	Optional	Optional
Audio	1x Line-out, 1x Mic-in via external (21-pin) multi port cable	1x Line-out, 1x Mic-in via external (21-pin) multi port cable	Line-Out, Mic-In
Speakers	2x Built-in 2W speakers	2x Built-in 2W speakers	-
RFID	1x	1x	-
SIM Card	2x micro SIM slot	2x micro SIM slot	-
GPS	1x U-blox LISA-U200 (optional)	1x U-blox LISA-U200 (optional)	1x
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	2x Mini-PCIe socket
Operating System	Windows 10 / Linux	Windows 10 / Linux	-
Operating System Support	-	-	WES2009/WES 7E/ XP Pro Embedded/ Win7 Pro Embedded
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 60VDC	9 to 60VDC	9 to 36VDC
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	-30°C to 80°C	-30°C to 70°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%,non condensing
Protection	Complete IP65 housing, Shock + Vibration, Reverse-, over voltage- and under voltage-protection	Complete IP65 housing, Shock + Vibration, Reverse-, over voltage- and under voltage-protection	IP65 (Optional)
Certification	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC	CE, FCC
Dimensions	289,98 x 229,97 x 68,7 mm (W x H x D)	289,98 x 229,97 x 68,7 mm (W x H x D)	290 x 230 x 68 mm (W x D x H)
Weight	3,5 Kg	3,5 Kg	3kg
Material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Typ. Application	Automotive	Automotive	Automotive



Vehicle Mount Computer 3030



Vehicle Mount Computer 320-AC0



Vehicle Mount Computer 3000/3001

Bestellinformation

Artikel-Nr. PKPA1013
VMC 3030, 10.1" w/ PCT, AG, 1.000cd/m², IK08,
IP65 Front, Intel Atom x7433RE, Quadcore,
1.5GHz, 8GB DDR5

Artikel-Nr. PKPA1012
VMC 320-AC0, 10.1" w/ PCT, AG, 1.000cd/m²,
IK08, IP65 Front, NXP i.MX 8M Plus, Quad
ArmCortex-A53, 3GB LPDDR4 SDRAM

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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Vehicle Mount Computer 3020



Vehicle Mount Computer 3021



Vehicle Mount Computer 4020

LCD Size	10,4"	10,4"	12,1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	XGA (1.024x768)	XGA (1.024x768)
Display Colors	-	-	-
Brightness	1.200cd/m ²	1.200cd/m ²	1.200cd/m ²
Contrast Ratio	900:1	900:1	750:1
Response Time	-	-	-
Viewing Angle	170° x 170° (H x V)	170° x 170° (H x V)	170° / 170° (H / V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	x	x	x
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	5-wire resistive Touch Screen	5-wire resistive Touch Screen	5-wire resistive Touch Screen
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 ~ F10 programmable function, LCD back light on/off, Volume and brightness control (+/-)
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 75/100 VESA, Stand	VESA 75 VESA	VESA 75 VESA
CPU	Intel Atom x5-E3930 dual core 1.8GHZ	Intel Atom x7-3950 dual core, 1.6GHZ	Intel Atom x7-3950 dual core, 1.6GHZ
Chipset	-	-	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	-	8GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L 1.600MHz SO-DIMM	DDR3L 1.600MHz SO-DIMM	DDR3L 1.600MHz SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HD SATA	1x 2.5" SATA SSD bay	1x 2.5" SATA SSD bay	1x 2.5" SATA SSD bay
Internal Storage	-	-	-
Graphic Interface	-	-	-
Interface COM	2x RS232	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)
CAN	1x Isolated CAN 2.0B	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
Interface USB	1x USB 2.0	1x (type A) USB 2.0	2x or 3x (type A) USB 2.0
Interface LAN	WLAN	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
Interface IO	2x GPIO	2x via external (22-pin) multi port cable GPIO	2x via external (22-pin) multi port cable or via 26-pin connector GPIO
Mini PCIe	2x	4x	4x
Camera	-	-	-
Bluetooth	-	Optional	Optional
Audio	1x Line-out, 1x Mic-in	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
Speakers	2x Built-in 2W speakers	2x Built-in 2W speakers	2x Built-in 2W speakers
RFID	-	1x	1x
SIM Card	1x SIM slot	2x micro SIM slot	2x micro SIM slot
GPS	1x U-blox NEO-M8N (optional)	1x U-blox LISA-U200 (optional)	1x U-blox LISA-U200 (optional)
Mobile Communication 2G	-	Optional GSM+GPRS	Optional GSM+GPRS
Mobile Communication 3G	-	Optional HSDPA+UMTS	Optional HSDPA+UMTS
PCIe	2x Mini PCIe	4x Mini PCIe	4x Mini PCIe
Operating System	-	Windows 10 / Linux	Windows 10 / Linux
Operating System Support	Windows 10 / Linux	-	-
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	-	-	-
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-30°C to 60°C
Storage Temperature	-30°C to 80°C	-30°C to 80°C	-30°C to 70°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	IP65	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
Certification	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class B FCC
Dimensions	289,98 x 229,97 x 77,95 mm (W x H x D)	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)
Weight	3kg	3,5 Kg	5 Kg
Material	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
Typ. Application	Automotive	Automotive	Automotive



Vehicle Mount Computer 3020



Vehicle Mount Computer 3021



Vehicle Mount Computer 4020

Bestellinformation

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

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

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12,1" DeltaTough Panel-PC Type 1



12,1" DeltaTough Panel-PC Type 2

LCD Size	12,1"	12,1"
Active Area	-	-
Pixel Pitch	-	-
Aspect Ratio	-	-
Display Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WXGA (1.280x800)
Display Colors	-	-
Brightness	1.000cd/m ²	1.000cd/m ²
Contrast Ratio	1.000:1	1.000:1
Response Time	-	-
Viewing Angle	178° / 178° (H / V)	178° / 178° (H / V)
Anti Reflection Glass	Anti-Reflective and Anti-Fingerprint Coating	Anti-Reflective and Anti-Fingerprint Coating
Strengthened Glass	-	-
Sunlight Readable	x	x
Gapless Optical Bonding	x	x
MTBF	55.000 hours	55.000 hours
TouchScreen	PCT	PCT
Keypad	F1-F4 programmable function keys	F1-F4 programmable function keys
Cooling System	Fanless	Fanless
Mounting System	VESA 75 VESA	VESA 75 VESA
CPU	Intel Atom E3845 Automotive Grade, 1.91Ghz	Intel Atom E3845 Automotive Grade, 1.91Ghz
Chipset	-	-
Watchdog Timer	-	-
Basic Equipment	4GB	4GB
Maximum Equipment	8GB	8GB
SDRAM	-	-
DIMM / MemorySocket	DDR3L 1.866MHz 204-Pin SO-DIMM	DDR3L 1.866MHz 204-Pin SO-DIMM
Compact Flash	-	-
SD	-	-
HD SATA	1x mSATA + 1x eMMC 64GB	1x mSATA + 1x eMMC 64GB
Internal Storage		
Graphic Interface	4x composite video input (optional) Composite/CVBS	4x composite video input (optional) Composite/CVBS
Interface COM	2x RS232	2x RS232
CAN	2x Isolated CAN 2.0B	-
Interface USB	4x USB 3.0	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	2x via RJ45 10/100/1000 BASE-T, 802.11 A/B/G/N/AC (2.4G and 5G) WLAN
Interface IO	1x 8 Bit Programmable GPIO GPIO	1x 8 Bit Programmable GPIO GPIO
Mini PCIe	-	-
Camera	-	-
Bluetooth	Bluetooth 4.0	Bluetooth 4.0
Audio	1x Output	1x Output
Speakers	Built-in Waterproof Speaker x 2, Audio Input x 1,	Built-in Waterproof Speaker x 2, Audio Input x 1,
RFID	-	-
SIM Card	Micro SD Card Slot	Micro SD Card Slot
GPS	1x U-blox NEO-M8N	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	- Windows 10 Professional 64Bit - Windows 10 Home 64Bit
Input Voltage Nominal	-	-
Input Voltage Min/Max	9 to 60VDC	9 to 60VDC
Output Voltage Nominal	-	-
Output Voltage Min/Max	-	-
Input Current	>40W	>40W
Operating Temperature	-30°C to 85°C	-30°C to 85°C
Storage Temperature	-30°C to 85°C	-30°C to 85°C
Relative Humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Protection	Vibration/Shock Resistant,IK08 Impact Resistant,IP65/NEMA4	Vibration/Shock Resistant,IK08 Impact Resistant,IP65/NEMA4
Certification	CE, e13 (Vehicle), FCC, RoHs	CE, e13 (Vehicle), FCC, RoHs
Dimensions	312 x 230 x 67,2 mm (W x H x D)	312 x 230 x 67,2 mm (W x H x D)
Weight	3,2 kg	3,2 kg
Material	Rugged Aluminum and Stainless-Steel	Rugged Aluminum and Stainless-Steel
Typ. Application	Automotive, Marine, Outdoor	Automotive, Marine, Outdoor

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12,1" DeltaTough Panel-PC Type 1



12,1" DeltaTough Panel-PC Type 2

Bestellinformation

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

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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7" Fanless Touch Panel-PC



7" Fanless Touch Panel-PC Front IP65



Vehicle Mount Computer 2030

LCD Size	7"	8"
Active Area	153,6 x 90 mm	-
Pixel Pitch	-	-
Aspect Ratio	16:9	-
Display Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	720p (1.280x720)
Display Colors	16,7M	-
Brightness	500 cd/m ²	1.000cd/m ²
Contrast Ratio	700:1	1.000:1
Response Time	10 ms / 15 ms (Tr / Tf)	-
Viewing Angle	150° / 145° (H / V)	170° / 170° (H / V)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	Anti-glare treatment
Strengthened Glass	7H	-
Sunlight Readable	-	x
Gapless Optical Bonding	-	-
MTBF	20.000 h	-
TouchScreen	PCT 10-point Multi-Touch	PCT
Keypad	-	F1-F4 programmable function keys
Cooling System	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	VESA 75 VESA
CPU	Intel Pentium QuadCore N4200	ARM Cortex-A53 NXP i.MX 8M Quad Core, up to 1.3GHz
Chipset	Intel® E3800	-
Watchdog Timer	-	-
Basic Equipment	4GB	4GB
Maximum Equipment	8GB	-
SDRAM	-	-
DIMM / MemorySocket	DDR3L	LPDDR4 SDRAM 2.400MHz
Compact Flash	-	-
SD	-	1x Micro SDXC Slot
HD SATA	-	1x eMMC 32GB (BOM optional 64GB)
Internal Storage	128GB Industrial SSD	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x DisplayPort, Internal LCD-LVDS	4x composite video input Composite/CVBS
Interface COM	3x RS232/485	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)
CAN	-	1x Isolated CAN 2.0B
Interface USB	3x USB 2.0, 1x USB 3.0	3x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, WLAN
Interface IO	GPIO, Digital Input, Digital Output	2x GPIO
Mini PCIe	-	2x
Camera	-	-
Bluetooth	-	x
Audio	1x MIC-In	1x Line-out, 1x Mic-in
Speakers	-	2x Built-in 2W speakers
RFID	-	-
SIM Card	-	1x Micro-SIM slot
GPS	-	1x U-blox NEO-M8N
Mobile Communication 2G	-	-
Mobile Communication 3G	-	-
PCIe	2x Mini Card slots with PCIe and USB interface	-
Operating System	Linux Ubuntu	-
Operating System Support	Windows 10 / 8 / 7, Linux (32-bit / 64-bit)	LINUX / ANDROID (by request)
Input Voltage Nominal	-	-
Input Voltage Min/Max	100 to 240VACDC	9 to 60VDC
Output Voltage Nominal	12VDC	-
Output Voltage Min/Max	-	-
Input Current	15W	-
Operating Temperature	-10°C to 60°C	-30°C to 60°C
Storage Temperature	-	-40°C to 80°C
Relative Humidity	10% to 90%	10% to 90%, non-condensing
Protection	IP65 front housing	Full IP65
Certification	-	CE, e13 (Vehicle), Class B FCC
Dimensions	195,6 x 137,6 x 48,5 mm (L x W x H)	250 x 179 x 67,5 mm (W x H x D)
Weight	2,3 Kg	2,4 kg
Material	Aluminum Housing	plastic
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Automotive, Marine, Outdoor

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7" Fanless Touch Panel-PC



7" Fanless Touch Panel-PC Front IP65



Vehicle Mount Computer 2030

Bestellinformation

Artikel-Nr. PKPX8201-1

7" Fanless Touch Panel-PC w/PCT, 8GB DDR3L,
120GB SSD, 12VDC, Intel Atom x6413 Processor,
500cd/m², VGA+DP+LVDS, Linux Debian

Artikel-Nr. PKPX8201

7" Fanless Touch Panel-PC w/ PCT, 4GB DDR3L,
12VDC, Intel® Pentium® N4200, 500cd/m²,
VGA+DP+LVDS, IP65, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPA1023

VMC 2030-PC1, 8" w/ PCT, full IP65, Intel Atom®
x7433RE quad-core, 8GB DDR5, 1.280x720,
1.000nits

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8" Fanless Touch Panel-PC Typ 4

8" Fanless Touch Panel-PC Front IP65
Typ 38" Fanless Touch Panel PC Front IP65
(1x COM)

LCD Size	8"	8"
Active Area	162 x 122 mm	-
Pixel Pitch	-	-
Aspect Ratio	4:3	-
Display Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	SVGA (800x600)
Display Colors	16,7M	-
Brightness	250 cd/m ²	400 cd/m ²
Contrast Ratio	700:1	500:1
Response Time	6 ms / 14 ms (Tr / Tf)	-
Viewing Angle	150° / 150° (H / V)	50°/70°/70°/70° (U/D/L/R)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-
Strengthened Glass	7H	-
Sunlight Readable	-	-
Gapless Optical Bonding	-	-
MTBF	20.000 h	-
TouchScreen	PCT 10-point Multi-Touch	5-wire resistive (flush panel type)
Keypad	-	-
Cooling System	Fanless	Fanless
Mounting System	100 x 100 mm VESA	VESA, Stand
CPU	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Atom D525 1.8GHz
Chipset	-	Intel ICH8M
Watchdog Timer	-	-
Basic Equipment	4GB	1GB
Maximum Equipment	8GB	2GB
SDRAM	-	-
DIMM / MemorySocket	DDR3L	DDR3
Compact Flash	-	1x
SD	-	-
HD SATA	-	-
Internal Storage	128GB Industrial SSD	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-
Interface COM	1x RS232/485, 2x RS232/485, full-PIN	1x RS232
CAN	-	-
Interface USB	2x USB 2.0, 2x USB 3.0	2x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T
Interface IO	GPIO, Digital Input, Digital Output	-
Mini PCIe	-	1x
Camera	-	-
Bluetooth	-	-
Audio	1x MIC-In	-
Speakers	-	-
RFID	-	-
SIM Card	-	-
GPS	-	-
Mobile Communication 2G	-	-
Mobile Communication 3G	-	-
PCIe	1x PCIe1 Straddle Connector	-
Operating System	Linux Ubuntu	-
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	-
Input Voltage Nominal	-	12VDC
Input Voltage Min/Max	100 to 240VACDC	-
Output Voltage Nominal	12VDC	-
Output Voltage Min/Max	-	-
Input Current	14W	-
Operating Temperature	-10°C to 60°C	-5°C to 50°C
Storage Temperature	-	-20°C to 75°C
Relative Humidity	10% to 90%	10% to 90%, non-condensing
Protection	IP65 front housing, IP40 back housing	IP65 front
Certification	-	CE
Dimensions	201 x 160,5 x 46,7 mm (L x W x H)	217,4 x 176,4 x 46,7 mm
Weight	1,8 Kg	2kg
Material	Silicone edge, aluminum IPC back housing	-
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial



8" Fanless Touch Panel-PC Typ 4

8" Fanless Touch Panel-PC Front IP65
Typ 38" Fanless Touch Panel PC Front IP65
(1x COM)

Bestellinformation

Artikel-Nr. PKPX8202-1

8" Fanless Touch Panel-PC Typ 4 w/PCT, 8 GB
DDR4, 120 GB SSD, Intel Atom x6413, 350cd/m²,
HDMI+DP, front IP65, Linux Deb.

Artikel-Nr. PKPX8202

8" Fanless Touch Panel-PC Type 3 w/ PCT, 4GB
DDR3L, Intel® Pentium® N4200, 250cd/m²,
HDMI+DP, front IP65, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPX8007-1

8" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 2x USB, 1x COM, 1x VGA,
800x600

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8" Fanless Touch Panel PC Front IP65
(2x COM)



8" Fanless Touch Panel-PC Front IP65
Typ 2



9,7" Fanless Touch Panel-PC Typ 3

LCD Size	8"	8"	
Active Area	-	-	
Pixel Pitch	-	-	
Aspect Ratio		4:3	
Display Backlight	LED Backlight	LED Backlight	-
Display Resolution	SVGA (800x600)	SVGA (800x600)	-
Display Colors	-	262K	
Brightness	400 cd/m²	400 cd/m²	
Contrast Ratio	500:1	500:1	
Response Time	-	-	
Viewing Angle	50°/70°/70°/70° (U/D/L/R)	50°/70°/70°/70° (U/D/L/R)	
Anti Reflection Glass	-	-	
Strengthened Glass	-	-	
Sunlight Readable	-	-	
Gapless Optical Bonding	-	-	
MTBF	-	-	
TouchScreen	5-wire resistive (flush panel type)	5-wire resistive (flush panel type)	
Keypad	-	-	
Cooling System	Fanless	Fanless	
Mounting System	VESA, Stand	VESA, Stand	-
CPU	Intel Atom D525 1.8GHz	Intel Atom E3826, 1.46GHz	
Chipset	Intel ICH8M	-	
Watchdog Timer	-	1 to 255 seconds and from 1 to 255 minutes (Tolerance 15% under room temperature 25°C)	
Basic Equipment	1GB	2GB	
Maximum Equipment	2GB	8GB	
SDRAM	-	-	
DIMM / MemorySocket	DDR3	DDR3L SO-DIMM	
Compact Flash	1x	1x CFast	
SD	-	-	
HD SATA	-	1x 2.5" SATA HDD or 1x SATA DOM	
Internal Storage	-	-	
Graphic Interface	-	-	-
Interface COM	1x RS232, 1x RS232/422/485	2x RS232/422/485	
CAN	-	-	
Interface USB	4x USB 2.0	3x USB 2.0, 1x USB 3.0	-
Interface LAN	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T	-
Interface IO	4x Digital Input, 4x Digital Output	-	-
Mini PCIe	1x	1x	
Camera	-	-	
Bluetooth	-	-	
Audio	Line-Out, Line-in, Mic-In Audio Jack	Line-Out, Line-In (Optional), MIC-In (Optional) audio Jack	
Speakers	-	-	
RFID	-	-	
SIM Card	-	-	
GPS	-	-	
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	1x Mini PCIe	
Operating System	-	-	
Operating System Support	-	-	
Input Voltage Nominal	12VDC	-	
Input Voltage Min/Max	-	12 to 30VDC	
Output Voltage Nominal	-	-	
Output Voltage Min/Max	-	-	
Input Current	-	-	
Operating Temperature	-5°C to 50°C	-5°C to 50°C	
Storage Temperature	-20°C to 75°C	-20°C to 75°C	
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	
Protection	IP65 front	IP65 front	
Certification	CE	CE, FCC	-
Dimensions	217.4 x 176.4 x 61.9 mm	217.4 x 176.4 x 68.9mm	
Weight	2kg	2.3kg	
Material	-	-	
Typ. Application	Industrial	Industrial	-



**8" Fanless Touch Panel PC Front IP65
(2x COM)**



**8" Fanless Touch Panel-PC Front IP65
Typ 2**



9,7" Fanless Touch Panel-PC Typ 3

Bestellinformation

Artikel-Nr. PKPX8007

8" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 4x USB, 2x COM, 1x VGA,
Audio, 800x60

Artikel-Nr. PKPX8019

8" Fanless Touch Panel PC Typ 2 w/TouchScreen,
Intel Atom E3826 1.46GHz, 4x USB, 2x COM, 1x
VGA, 800x600

Artikel-Nr. PKPX8203-1

9,7" Fanless Touch Panel-PC Typ 3, PCT, XGA,
8GB DDR4, 240GB SSD, Core™ i5-1145G7E,
300cd/m², HDMI+DP, IP65 front, Linux, Opt.Bond.

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9,7" Fanless Touch Panel-PC Front IP65 Typ 2



9,7" Fanless Touch Panel-PC Typ 2



9,7" Fanless Touch Panel-PC Front IP65 Typ 1

LCD Size	9,7"		9,7"
Active Area	197 x 147 mm		197 x 147 mm
Pixel Pitch	-		-
Aspect Ratio	4:3		4:3
Display Backlight	LED Backlight	-	LED Backlight
Display Resolution	XGA (1.024x768)	-	XGA (1.024x768)
Display Colors	16,7M		16,7M
Brightness	350 cd/m²		350 cd/m²
Contrast Ratio	800:1		800:1
Response Time	10 ms / 15 ms (Tr / Tf)		10 ms / 15 ms (Tr / Tf)
Viewing Angle	170° / 170° (H / V)		170° / 170° (H / V)
Anti Reflection Glass	Anti-glare treatment (chemical etching)		Anti-glare treatment (chemical etching)
Strengthened Glass	7H		7H
Sunlight Readable	-		-
Gapless Optical Bonding			
MTBF	20.000 h		20.000 h
TouchScreen	PCT 10-point Multi-Touch		PCT 10-point Multi-Touch
Keypad	-		-
Cooling System	Fanless		Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	-	100 x 100 mm VESA, Metal stand (included) Stand
CPU	7th Gen. Intel Core i5-7300U, Dual Core 2.6 GHz (up to 3.5 GHz)		Intel Pentium N4200 Quad Core, up to 2.5 GHz
Chipset	-		-
Watchdog Timer	-		-
Basic Equipment	8GB		4GB
Maximum Equipment	16GB		8GB
SDRAM	-		-
DIMM / MemorySocket	DDR4		DDR3L
Compact Flash			
SD			
HD SATA			
Internal Storage	128GB Industrial SSD		128GB Industrial SSD
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN		1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN			
Interface USB	4x USB 3.0	-	2x USB 2.0, 2x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	-	2x 10/100/1000 BASE-T, WLAN
Interface IO	GPIO, Digital Input, Digital Output	-	GPIO, Digital Input, Digital Output
Mini PCIe	-		-
Camera			
Bluetooth	-		-
Audio	1x MIC-In		1x MIC-In
Speakers	-		-
RFID	-		-
SIM Card	-		-
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe x1 straddle connector		1x PCIe x1 straddle connector
Operating System	Linux Ubuntu (preinstalled)		Linux Ubuntu (preinstalled)
Operating System Support	Linux Ubuntu + Windows 10		Linux Ubuntu + Windows 10
Input Voltage Nominal	-		-
Input Voltage Min/Max	100 to 240VACDC		100 to 240VACDC
Output Voltage Nominal	12VDC		12VDC
Output Voltage Min/Max	-		-
Input Current	28W		14W
Operating Temperature	-10°C to 60°C		-10°C to 60°C
Storage Temperature	-		-
Relative Humidity	10% to 90%		10% to 90%
Protection	IP65 front housing / IP40 rear housing		IP65 front housing / IP40 rear housing
Certification	-	-	-
Dimensions	245 x 195,8 x 59 (L x W x H)		244,9 x 195,8 x 50 mm (L x W x H)
Weight	2 Kg		2 Kg
Material	Silicone edge, ABS plastic Back housing		Rubber front case, Aluminum IPC back case
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	-	Industrial, Marine, Digital Signage, Outdoor



**9,7" Fanless Touch Panel-PC Front
IP65 Typ 2**



9,7" Fanless Touch Panel-PC Typ 2



**9,7" Fanless Touch Panel-PC Front
IP65 Typ 1**

Bestellinformation

Artikel-Nr. PKPX8203

9,7" Fanless Touch Panel-PC Front IP65 Typ 2,
Intel® Core i5-7300U, 8GB DDR4, 350cd/m², XGA,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPX8204-1

9,7" Fanless Touch Panel-PC Typ 2, PCT, XGA,
8GB RAM, 120GB SSD, Intel Atom
x6413,300cd/m², HDMI+DP, IP65 front, Linux,
Opt.Bond.

Artikel-Nr. PKPX8204

9,7" Fanless Touch Panel-PC Type 1 w/ PCT, 4GB
DDR3L, Intel® Pentium® N4200, 350cd/m², XGA,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

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10,1" Fanless Touch Panel-PC Full IP65

10,1" Fanless Touch Panel-PC Typ 5

10,1" Fanless Touch Panel-PC Front IP65 Typ 4

LCD Size	10,1"		10,1"
Active Area			217 x 136 mm
Pixel Pitch			-
Aspect Ratio			16:10
Display Backlight	-	-	LED Backlight
Display Resolution	-	-	WXGA (1.280x800)
Display Colors			16.7M
Brightness			350 cd/m²
Contrast Ratio			800:1
Response Time			10 ms / 15 ms (Tr / Tf)
Viewing Angle			170° / 170° (H / V)
Anti Reflection Glass			Anti-glare treatment (chemical etching)
Strengthened Glass			7H
Sunlight Readable			-
Gapless Optical Bonding			
MTBF			20.000 h
TouchScreen			PCT 10-point Multi-Touch
Keypad			-
Cooling System			Fanless
Mounting System	-	-	100 x 100 mm VESA
CPU			Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset			-
Watchdog Timer			-
Basic Equipment			8GB
Maximum Equipment			16GB
SDRAM			-
DIMM / MemorySocket			DDR4
Compact Flash			-
SD			-
HD SATA			-
Internal Storage			128GB Industrial SSD
Graphic Interface	-	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM			1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN			-
Interface USB	-	-	4x USB 3.0
Interface LAN	-	-	2x 10/100/1000 BASE-T, WLAN
Interface IO	-	-	GPIO, Digital Input, Digital Output
Mini PCIe			-
Camera			
Bluetooth			-
Audio			1x MIC-In
Speakers			-
RFID			-
SIM Card			-
GPS			-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			1x PCIe1 Straddle Connector
Operating System			Linux Ubuntu
Operating System Support			Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal			-
Input Voltage Min/Max			100 to 240VACDC
Output Voltage Nominal			12VDC
Output Voltage Min/Max			-
Input Current			30W
Operating Temperature			-10°C to 60°C
Storage Temperature			-
Relative Humidity			10% to 90%
Protection			IP65 front housing, IP40 back housing
Certification	-	-	-
Dimensions			Tbd.
Weight			2,3 Kg
Material			Silicone edge, aluminum IPC back housing
Typ. Application	-	-	Industrial, Marine, Digital Signage, Outdoor



10,1" Fanless Touch Panel-PC Full IP65



10,1" Fanless Touch Panel-PC Typ 5



10,1" Fanless Touch Panel-PC Front
IP65 Typ 4

Bestellinformation

Artikel-Nr. PKPX8900
10,1" Fanless Touch Panel-PC Full IP65,PCT,8GB
DDR4,120GB SSD, Intel Atom®
x6211E,1.000cd/m²,HDMI+DP,IP65,Linux U.

Artikel-Nr. PKPX8209-1
10,1" Fanless Touch Panel-PC Typ 5, PCT, 8GB
DDR4, 240GB SSD, Core™ i5-1145G7E,
350cd/m², HDMI+DP, IP65 front, Linux, Opt.Bond.

Artikel-Nr. PKPX8209
10,1" Fanless Touch Panel-PC Type 4 w/ PCT,
WXGA, 8GB DDR4, Intel® Core i5-7300U,
350cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

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**10,1" Fanless Touch HMI Panel-PC
Front IP65**



**10,1" Fanless Touch HMI Panel-PC
Front IP65 Typ 2**



10,1" Fanless Touch Panel-PC Typ 4

LCD Size	10,1"	10,1"	
Active Area	-	-	
Pixel Pitch	-	-	
Aspect Ratio	-	-	
Display Backlight	LED Backlight	LED Backlight	-
Display Resolution	WXGA (1.280x800)	WXGA (1.280x800)	-
Display Colors	16,7M	16,7M	
Brightness	350 cd/m²	350 cd/m²	
Contrast Ratio	-	-	
Response Time	-	-	
Viewing Angle	80° / 80° / 85° / 85° (U / D / R / L)	85° / 85° / 85° / 85° (U / D / R / L)	
Anti Reflection Glass	-	-	
Strengthened Glass	-	-	
Sunlight Readable	-	-	
Gapless Optical Bonding	-	-	
MTBF	-	-	
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	
Keypad	-	-	
Cooling System	Fanless	Fanless	
Mounting System	75 x 75 mm VESA	75 x 75 mm, 100 x 100 mm with Bracket VESA	-
CPU	Intel® Core i5-6300U 2.4GHz	Intel N2930 Quad-Core 1.83GH	
Chipset	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel i210AT GbE	
Watchdog Timer	1 to 255 levels reset	1 to 255 levels reset	
Basic Equipment	4GB	2GB	
Maximum Equipment	8GB	8GB	
SDRAM	-	-	
DIMM / MemorySocket	DDR4 SO-DIMM RAM	DDR3L SO-DIMM RAM	
Compact Flash	-	-	
SD	-	-	
HD SATA	1x mSATA	1x mSATA for SATA interface SSD	
Internal Storage	-	-	
Graphic Interface	1x HDMI	-	-
Interface COM	2x RS232/422/485	-	
CAN	-	-	
Interface USB	4x USB 3.0	1x USB 2.0, 1x USB 3.0	-
Interface LAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	-
Interface IO	-	-	-
Mini PCIe	2x	2x	
Camera	-	-	
Bluetooth	-	-	
Audio	1x Line Out, 1x MIC In (optional)	1x Line Out, 1x MIC In	
Speakers	-	-	
RFID	-	-	
SIM Card	-	-	
GPS	-	-	
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	
Operating System	-	-	
Operating System Support	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 8.1 Industry / 7 Pro / WSTE, Linux (Ubuntu)	
Input Voltage Nominal	-	12VDC	
Input Voltage Min/Max	12 to 28VDC	-	
Output Voltage Nominal	-	-	
Output Voltage Min/Max	-	-	
Input Current	Max. 23W (w/o I/O cards)	-	
Operating Temperature	-20°C to 55°C	-20°C to 55°C	
Storage Temperature	-30°C to 70°C	-30°C to 70°C	
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)	
Protection	Front panel compliant with IP65	Front panel compliant with IP65	
Certification	CE, Class A FCC	CE, Class A FCC	-
Dimensions	255 x 175 x 76,5 mm (W x H x D)	255 x 175 x 39,5 mm (W x H x D)	
Weight	2,41 kg	1,7 Kg	
Material	Aluminum front bezel and SGCC steel chassis	Aluminum front bezel and SECC steel chassis	
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage	-

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**10,1" Fanless Touch HMI Panel-PC
Front IP65**



**10,1" Fanless Touch HMI Panel-PC
Front IP65 Typ 2**



10,1" Fanless Touch Panel-PC Typ 4

Bestellinformation

Artikel-Nr. PKPX8100

10,1" Fanless Touch HMI Panel-PC w/ 4GB DDR4,
WXGA, Intel®Core i5-6300U 2.4GHz, 2x GbE
LAN, 2x mPCIe, 350 cd/m²

Artikel-Nr. PKPX8101

10,1" Fanless Touch HMI Panel-PC Typ 2 w/ 2GB
DDR3L, WXGA, Intel®Quad-Core N2930
1.83GHz, 2x GbE LAN, 2x mPCIe, 350 cd/m²

Artikel-Nr. PKPX8208-1

10,1" Fanless Touch Panel-PC Typ 4, PCT, 8GB
DDR3L, 120GB SSD, Atom® x6413, 350cd/m²,
HDMI+DP, IP65 front, Linux, Opt.Bond.

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10,1" Fanless Touch Panel-PC Front IP65 Typ 3



11,6" Fanless Touch HMI Panel-PC Front IP65



11,6" Fanless Touch HMI Panel-PC Front IP65 Typ 2

LCD Size	10,1"	11,6"	11,6"
Active Area	217 x 136 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:10	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.366x768)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	16,7M	16,7M
Brightness	350 cd/m²	300 cd/m²	300cd/m²
Contrast Ratio	800:1	-	-
Response Time	10 ms / 15 ms (Tr / Tf)	-	-
Viewing Angle	170° / 170° (H / V)	80° / 80° / 85° / 85° (U / D / R / L)	85° / 85° / 85° / 85° (U / D / R / L)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-	-
Strengthened Glass	7H	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	20.000 h	-	-
TouchScreen	PCT 10-point Multi-Touch	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	75 x 75 mm VESA	75 x 75 mm, 100 x 100 mm with Bracket VESA
CPU	Intel Pentium N4200 Quad Core, up to 2.5 GHz	Intel Core i5-6300U 2.4GHz	Intel N2930 Quad-Core 1.83GHz
Chipset	-	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel i210AT GbE
Watchdog Timer	-	1 to 255 levels reset	1 to 255 levels reset
Basic Equipment	4GB	4GB	2GB
Maximum Equipment	8GB	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L	DDR4 SO-DIMM RAM	DDR3L SO-DIMM RAM
Compact Flash	-	-	-
SD	-	-	-
HD SATA	-	1x mSATA	1x mSATA for SATA interface SSD
Internal Storage	128GB Industrial SSD	-	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS	1x HDMI	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	2x RS232/422/485	-
CAN	-	-	-
Interface USB	2x USB 2.0, 2x USB 3.0	4x USB 3.0	1x USB 2.0, 1x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN
Interface IO	GPIO, Digital Input, Digital Output	-	-
Mini PCIe	-	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x Line Out, 1x MIC In (optional)	1x Line Out, 1x MIC In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe x1 straddle connector	-	-
Operating System	Linux Ubuntu (preinstalled)	-	-
Operating System Support	Linux Ubuntu + Windows 10	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)
Input Voltage Nominal	-	-	12VDC
Input Voltage Min/Max	100 to 240VACDC	12 to 28VDC	-
Output Voltage Nominal	12VDC	-	-
Output Voltage Min/Max	-	-	-
Input Current	14W	-	-
Operating Temperature	-10°C to 60°C	-20°C to 55°C	-20°C to 55°C
Storage Temperature	-	-30°C to 70°C	-30°C to 70°C
Relative Humidity	10% to 90%	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)
Protection	IP65 front housing / IP40 rear housing	Front panel compliant with IP65	Front panel compliant with IP65
Certification	-	CE, Class A FCC	CE, Class A FCC
Dimensions	278 x 203,6 x 49,3 mm (L x W x H)	306,2 x 206 x 46,8 mm (W x H x D)	306 x 206 x 39,5 mm (W x H x D)
Weight	2 Kg	Tbd.	2,1 Kg
Material	Rubber front case, Aluminum IPC back case	Aluminum front bezel and SGCC steel chassis	Aluminum front bezel and SECC steel chassis
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage

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**10,1" Fanless Touch Panel-PC Front
IP65 Typ 3**



**11,6" Fanless Touch HMI Panel-PC
Front IP65**



**11,6" Fanless Touch HMI Panel-PC
Front IP65 Typ 2**

Bestellinformation

Artikel-Nr. PKPX8208
10,1" Fanless Touch Panel-PC Type 2 w/PCT,
4GB DDR3L, Intel® Pentium® N4200, 350cd/m²,
WXGA, HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

Artikel-Nr. PKPX8105
11,6" Fanless Touch HMI Panel-PC w/ 4GB DDR4,
Full HD, Intel®Core i5-6300U 2.4GHz, 2x GbE
LAN, 2x mPCIe, 300 cd/m²

Artikel-Nr. PKPX8106
11,6" Fanless Touch HMI Panel-PC Typ 2 w/ 2GB
DDR3L, Full HD, Intel®Quad-Core N2930
1.83GHz, 2x GbE LAN, 2x mPCIe, 300 cd/m²

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12,1" Fanless Touch Panel-PC Typ 7

12,1" Fanless Touch Panel-PC Front
IP65 Typ 612,1" Fanless Touch Panel PC Front
IP65

LCD Size		12,1"	12,1"
Active Area		266 x 184 mm	-
Pixel Pitch		-	-
Aspect Ratio		4:3	-
Display Backlight	-	LED Backlight	LED Backlight
Display Resolution	-	XGA (1.024x768)	SVGA (800x600)
Display Colors		16,2M	-
Brightness		500 cd/m ²	450 cd/m ²
Contrast Ratio		700:1	700:1
Response Time		25 ms / 10 ms (Tr / Tf)	-
Viewing Angle		160° / 160° (H / V)	65°/75°/80°/80° (U/D/L/R)
Anti Reflection Glass		Anti-glare treatment (chemical etching)	-
Strengthened Glass		7H	-
Sunlight Readable		-	-
Gapless Optical Bonding		-	-
MTBF		30.000 h	-
TouchScreen		PCT 10-point Multi-Touch	Fully fl at 5-wire resistive
Keypad		-	-
Cooling System		Fanless	Fanless
Mounting System	-	100 x 100 mm VESA, Metal stand (included) Stand	VESA, Stand
CPU		Intel Pentium QuadCore N4200	Intel Atom D525 1.8GHz
Chipset		Intel® E3800	Intel ICH8M
Watchdog Timer		-	-
Basic Equipment		4GB	1GB
Maximum Equipment		8GB	2GB
SDRAM		-	-
DIMM / MemorySocket		DDR3L	DDR3
Compact Flash			1x
SD			-
HD SATA			-
Internal Storage		128GB Industrial SSD	-
Graphic Interface	-	Intel® HD Graphics Graphics Adapter, 1x DisplayPort, Internal LCD-LVDS	-
Interface COM		2x RS232/485	1x Optional, 2x RS232/422/485
CAN			Optional
Interface USB	-	3x USB 2.0, 1x USB 3.0	4x USB 2.0
Interface LAN	-	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T
Interface IO	-	GPIO, Digital Input, Digital Output	Optional GPIO
Mini PCIe		-	2x
Camera		-	-
Bluetooth		-	-
Audio		1x MIC-In	-
Speakers		-	-
RFID		-	-
SIM Card		-	-
GPS		-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe		2x Mini Card slots with PCIe and USB interface, 1x PCIe x1 straddle connector	-
Operating System		Linux Ubuntu	-
Operating System Support		Windows 10 / 8 / 7, Linux (32-bit / 64-bit)	-
Input Voltage Nominal		-	-
Input Voltage Min/Max		100 to 240VACDC	12 to 30VDC
Output Voltage Nominal		12VDC	-
Output Voltage Min/Max		-	-
Input Current		30W	-
Operating Temperature		-10°C to 60°C	-5°C to 50°C
Storage Temperature		-	-20°C to 75°C
Relative Humidity		10% to 90%	10% to 90%, non-condensing
Protection		IP65 front housing	IP65 front
Certification	-	-	CE
Dimensions		309 x 239 x 54 mm (L x W x H)	317 x 243 x 65 mm
Weight		3,5 Kg	3.8kg
Material		Aluminum Housing	-
Typ. Application	-	Industrial, Marine, Digital Signage, Outdoor	Industrial



12,1" Fanless Touch Panel-PC Typ 7

12,1" Fanless Touch Panel-PC Front
IP65 Typ 612,1" Fanless Touch Panel PC Front
IP65

Bestellinformation

Artikel-Nr. PKPX8211-3
12,1" Fanless Touch Panel-PC Typ 7 w/PCT, 8GB
DDR4, 120GB SSD, Intel® Atom® x6413,
500cd/m², VGA+DP, IP65, Linux U.

Artikel-Nr. PKPX8211
12,1" Fanless Touch Panel-PC Typ 6 w/ PCT, 4GB
DDR3L, Intel® Pentium® N4200, 500cd/m²,
VGA+DP, IP65, Linux Ubuntu, Optical Bonding

Artikel-Nr. PKPX8008
12,1" Fanless Touch Panel PC w/TouchScreen,
Intel Atom D525 1.8GHz, 4x USB, 2x COM, 1x
VGA, 800x600

Artikel-Nr. PKPX8008-1
12,1" Fanless Touch Panel PC w/TouchScreen,
Intel Atom D525 1.8GHz, 4x USB, 4x COM, 1x
VGA, 800x600

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12,1" Factory Automation Panel PC Typ 1



12,1" Factory Automation Panel PC Typ 2



12,1" Fanless Touch Panel PC Front IP65 Typ 4

LCD Size	12.1"	12.1"	12.1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	4:3	4:3	4:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	SVGA (800x600)	XGA (1.024x768)	SVGA (800x600)
Display Colors	16.2M	16.2M	16.2M
Brightness	450 cd/m ²	500 cd/m ²	450 cd/m ²
Contrast Ratio	700:1	700:1	700:1
Response Time	-	-	-
Viewing Angle	65°/75°/80°/80° (U/D/L/R)	80°/80°/80°/80° (U/D/L/R)	65°/75°/80°/80° (U/D/L/R)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	x	x	5-wire resistive
Keypad	-	-	-
Cooling System	Fan	Fan	Fanless
Mounting System	VESA, Stand	VESA, Stand	VESA, Stand
CPU	On-board Intel® Atom Dual Core processor D2550, 1.86GHz, 1M L2 Cache	On-board Intel® Atom Dual Core processor D2550, 1.86GHz, 1M L2 Cache	Celeron J1900 Quad Core, up to 2.42GHz
Chipset	Intel® NM10 Express	Intel® NM10 Express	-
Watchdog Timer	1 sec to 255 sec 1 min to 255 min	1 sec to 255 sec 1 min to 255 min	1 to 255 sec and from 1 to 255 minutes
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	4GB	4GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3 SO-DIMM	DDR3 SO-DIMM	DDR3L SO-DIMM
Compact Flash	1x	1x	x
SD	-	-	-
HD SATA	1x 2.5" SATA HDD or 1x SATA DOM	1x 2.5" SATA HDD or 1x SATA DOM	optional 1x 2.5" SATA HDD or 1x SATA DOM
Internal Storage	-	-	-
Graphic Interface	-	-	-
Interface COM	2x RS232/422/485 w/ 2.5kv isolated	2x RS232/422/485 w/ 2.5kv isolated	2x RS232/422/485 w/ 2.5kv isolated
CAN	-	-	-
Interface USB	4x USB 2.0	4x USB 2.0	2x USB 2.0, 1x USB 3.0
Interface LAN	10/100/1000 BASE-T	10/100/1000 BASE-T	2x RJ45 10/100/1000 BASE-T
Interface IO	4x Digital Input, 4x Digital Output	4x Digital Input, 4x Digital Output	-
Mini PCIe	2x	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line-Out, 1x Line-In, 1x Mic-In	1x Line-Out, 1x Line-In, 1x Mic-In	1x Line-out
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe	2x Mini PCIe	2x Mini PCIe
Operating System	-	-	-
Operating System Support	-	-	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 30VDC	12 to 30VDC	12 to 30VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	60W
Operating Temperature	-5°C to 60°C	-5°C to 60°C	-5°C to 60°C
Storage Temperature	-20°C to 75°C	-20°C to 75°C	-20°C to 75°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	IP65 front	IP65 front	IP65 front, Shock & Vibration
Certification	CE, FCC	CE, FCC	CE, Class A FCC
Dimensions	317 x 243 x 88.2 mm	317 x 243 x 88.2 mm	317 x 243 x 65,89mm
Weight	4 kg	4 kg	4 kg
Material	-	-	-
Typ. Application	Industrial	Industrial	Industrial

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12.1" Factory Automation Panel PC Typ 1

12.1" Factory Automation Panel PC Typ 2

12,1" Fanless Touch Panel PC Front IP65 Typ 4

Bestellinformation

Artikel-Nr. PKPF1000
12.1" Factory Automation Panel-PC Typ 1, Atom
D2550 1.86GHz, 4x USB, 2x isol.COM, 800x600

Artikel-Nr. PKPF1001
12.1" Factory Automation Panel-PC Typ 2, Atom
D2550 1.86GHz, 4x USB, 2x isol.COM, 1.024x768

Artikel-Nr. PKPX8014-2
12,1" Fanless Touch Panel PC Typ 4 w/
TouchScreen, IP65, Intel Celeron J1900, up to
2.42GHz, 4GB DDR3L, 3x USB, 2x COM, SVGA

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12,1" Fanless Touch Panel PC Front IP65 Typ 5



13,3" Fanless Touch Panel-PC Typ 3



13,3" Fanless Touch Panel-PC Front IP65 Typ 2

LCD Size	12,1"		13,3"
Active Area	-		293,7 x 165,2 mm
Pixel Pitch	-		-
Aspect Ratio	4:3		16:9
Display Backlight	LED Backlight	-	LED Backlight
Display Resolution	XGA (1.024x768)	-	1080p (1.920x1.080)
Display Colors	16.2M		16.7M
Brightness	500 cd/m²		350 cd/m²
Contrast Ratio	700:1		700:1
Response Time	-		14 ms / 11 ms (Tr / Tf)
Viewing Angle	80°/80°/80°/80° (U/D/L/R)		178° / 178° (H / V)
Anti Reflection Glass	-		Anti-glare treatment (chemical etching)
Strengthened Glass	-		7H
Sunlight Readable	-		-
Gapless Optical Bonding	-		-
MTBF	-		15.000 h
TouchScreen	5-wire resistive		PCT 10-point Multi-Touch
Keypad	-		-
Cooling System	Fanless		Fanless
Mounting System	VESA, Stand	-	100 x 100 mm VESA
CPU	Celeron J1900 Quad Core, up to 2.42GHz		Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset	-		-
Watchdog Timer	1 to 255 sec and from 1 to 255 minutes		-
Basic Equipment	4GB		8GB
Maximum Equipment	8GB		16GB
SDRAM	-		-
DIMM / MemorySocket	DDR3L SO-DIMM		DDR4
Compact Flash	x		-
SD	-		-
HD SATA	optional 1x 2.5" SATA HDD or 1x SATA DOM		-
Internal Storage	-		128GB Industrial SSD
Graphic Interface	-	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	2x RS232/422/485 w/ 2.5kv isolated		1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN	-		-
Interface USB	2x USB 2.0, 1x USB 3.0	-	4x USB 3.0
Interface LAN	2x RJ45 10/100/1000 BASE-T	-	2x 10/100/1000 BASE-T, WLAN
Interface IO	-	-	GPIO, Digital Input, Digital Output
Mini PCIe	2x		-
Camera	-		-
Bluetooth	-		-
Audio	1x Line-Out		1x MIC-In
Speakers	-		-
RFID	-		-
SIM Card	-		-
GPS	-		-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe		1x PCIe1 Straddle Connector
Operating System			Linux Ubuntu
Operating System Support	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)		Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal	-		-
Input Voltage Min/Max	12 to 30VDC		100 to 240VACDC
Output Voltage Nominal	-		12VDC
Output Voltage Min/Max	-		-
Input Current	60W		34W
Operating Temperature	-5°C to 60°C		-10°C to 60°C
Storage Temperature	-20°C to 75°C		-
Relative Humidity	10% to 90%, non-condensing		10% to 90%
Protection	IP65 front, Shock & Vibration		IP65 front housing, IP40 back housing
Certification	CE, FCC	-	-
Dimensions	317 x 243 x 65,89mm		338,2 x 220,7 x 57,3 (L x W x H)
Weight	4 kg		3,6 Kg
Material	-		Silicone edge, aluminum IPC back housing
Typ. Application	Industrial	-	Industrial, Marine, Digital Signage, Outdoor



**12,1" Fanless Touch Panel PC Front
IP65 Typ 5**



13,3" Fanless Touch Panel-PC Typ 3



**13,3" Fanless Touch Panel-PC Front
IP65 Typ 2**

Bestellinformation

Artikel-Nr. PKPX8015-2
12,1" Fanless Touch Panel PC Typ 5 w/
TouchScreen, IP65, Intel Celeron J1900, up to
2.42GHz, 4GB DDR3L, 3x USB, 2x COM, XGA

Artikel-Nr. PKPX8213-1
13,3" Fanless Touch Panel-PC Typ 3, PCT, 8GB
DDR4, 240GB SSD, Core™ i5-1145G7E,
300cd/m², HDMI+DP, IP65 front, Linux, Opt.Bond.

Artikel-Nr. PKPX8213
13,3" Fanless Touch Panel-PC Typ 2 w/ PCT,
FHD, 8GB DDR4, Intel® Core i5-7300U, 350cd/m²,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

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13,3" Fanless Touch Panel-PC Typ 2



15" Fanless Touch Panel-PC Typ 9



15" Fanless Touch Panel-PC Typ 8

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
Audio			
Speakers			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-

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13,3" Fanless Touch Panel-PC Typ 2



15" Fanless Touch Panel-PC Typ 9



15" Fanless Touch Panel-PC Typ 8

Bestellinformation

Artikel-Nr. PKPX8212-1

13,3" Fanless Touch Panel-PC Typ 2, PCT, 8GB
DDR4, Atom® x6413, 300cd/m², HDMI+DP, IP65
front, Linux, Opt.Bond.

Artikel-Nr. PKPX8231-2

15" Fanless Touch Panel-PC Typ 9, PCT, 8GB
DDR4, 240GB SSD, Core™ i5-1145G7E,
420cd/m², HDMI+DP, USB3.0, IP65 front

Artikel-Nr. PKPX8231-1

15" Fanless Touch Panel-PC Typ 8, PCT, 8GB
DDR4, Core i5-7300U, 300cd/m², HDMI+DP,
USB3.0, IP65 front

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15" Fanless Touch Panel-PC Front IP65



15" Fanless Touch Panel-PC Typ 7



15" Fanless Touch Panel PC Front IP65

LCD Size	15"		15"
Active Area	304 x 228 mm		-
Pixel Pitch	-		-
Aspect Ratio	4:3		-
Display Backlight	LED Backlight	-	LED Backlight
Display Resolution	XGA (1.024x768)	-	XGA (1.024x768)
Display Colors	16,7M		-
Brightness	300 cd/m²		400 cd/m²
Contrast Ratio	700:1		700:1
Response Time	8 ms / 12 ms (Tr / Tf)		-
Viewing Angle	160° / 160° (H / V)		60°/80°/80°/80° (U/D/L/R)
Anti Reflection Glass	Anti-glare treatment (chemical etching)		-
Strengthened Glass	7H		-
Sunlight Readable	-		-
Gapless Optical Bonding			-
MTBF	30.000 h		-
TouchScreen	PCT 10-point Multi-Touch		Fully fl at 5-wire resistive
Keypad	-		-
Cooling System	Fanless		Fanless
Mounting System	100 x 100 mm VESA	-	VESA, Stand
CPU	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)		Intel Atom D525 1.8GHz
Chipset	-		Intel ICH8M
Watchdog Timer	-		-
Basic Equipment	8GB		1GB
Maximum Equipment	16GB		2GB
SDRAM	-		-
DIMM / MemorySocket	DDR4		DDR3
Compact Flash	-		1x
SD	-		-
HD SATA	-		-
Internal Storage	128GB Industrial SSD		-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN		1x Optional, 2x RS232/422/485
CAN	-		Optional
Interface USB	4x USB 3.0	-	4x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	-	2x 10/100/1000 BASE-T
Interface IO	GPIO, Digital Input, Digital Output	-	Optional GPIO
Mini PCIe	-		2x
Camera	-		-
Bluetooth	-		-
Audio	1x MIC-In		Line-Out, Line-In, Mic-In
Speakers	-		-
RFID	-		-
SIM Card	-		-
GPS	-		-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1x Straddle Connector		2x Mini-PCIe
Operating System	Linux Ubuntu		-
Operating System Support	Windows 10, Linux (32-bit / 64-bit)		-
Input Voltage Nominal	-		-
Input Voltage Min/Max	100 to 240VACDC		12 to 30VDC
Output Voltage Nominal	12VDC		-
Output Voltage Min/Max	-		-
Input Current	30W		-
Operating Temperature	-10°C to 60°C		-5°C to 50°C
Storage Temperature	-		-20°C to 75°C
Relative Humidity	10% to 90%		10% to 90%, non-condensing
Protection	IP65 front housing, IP40 back housing		IP65 front
Certification	-	-	CE
Dimensions	359 x 291 x 71 mm (L x W x H)		409 x 309 x 62.5 mm
Weight	3,4 Kg		5,3kg
Material	Silicone edge, aluminum IPC back housing		-
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	-	Industrial



15" Fanless Touch Panel-PC Front IP65
Typ 7



15" Fanless Touch Panel-PC Typ 7



15" Fanless Touch Panel PC Front IP65

Bestellinformation

Artikel-Nr. PKPX8231

15" Fanless Touch Panel-PC Type 7 w/ PCT,
XGA, 8GB DDR4, Intel® Core i5-7300U, 300cd/m²,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPX8230-1

15" Fanless Touch Panel-PC Typ 7, PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 420cd/m²,
HDMI+DP, IP65 front, Linux, Opt.Bond.

Artikel-Nr. PKPX8009

15" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 4x USB, 2x COM, 1x VGA,
1.024x768

Artikel-Nr. PKPX8009-1

15" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 4x USB, 4x COM, 1x VGA,
1.024x768

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15" Fanless Touch Panel PC Front IP65
Typ 3



15" Factory Automation Panel PC
Typ 3



15,6" Fanless Touch Panel-PC Front
IP65 Typ 4

LCD Size	15"	15"	15,6"
Active Area	-	-	344,2 x 193,6 mm
Pixel Pitch	-	-	-
Aspect Ratio	4:3	4:3	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	XGA (1.024x768)	1080p (1.920x1.080)
Display Colors	16.2M	16.2M	262K
Brightness	450 cd/m²	400 cd/m²	250 cd/m²
Contrast Ratio	800:1	700:1	800:1
Response Time	-	-	15 ms / 15 ms (Tr / Tf)
Viewing Angle	70°/80°/80°/80° (U/D/L/R)	60°/80°/80°/80° (U/D/L/R)	170° / 170° (H / V)
Anti Reflection Glass	-	-	Anti-glare treatment (chemical etching)
Strengthened Glass	-	-	7H
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	15.000 h
TouchScreen	5-wire resistive	x	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fan	Fanless
Mounting System	VESA, Stand	VESA, Stand	100 x 100 mm VESA
CPU	Celeron J1900 Quad Core, up to 2.42GHz	On-board Intel® Atom Dual Core processor D2550, 1.86GHz, 1M L2 Cache	11th Gen. Intel Core i5-1145G7E Tiger Lake Quad Core 1.5 GHz (up to 4.1 GHz)
Chipset	-	Intel® NM10 Express	-
Watchdog Timer	1 to 255 seconds and from 1 to 255 minutes	1 sec to 255 sec 1 min to 255 min	-
Basic Equipment	4GB	4GB	8GB
Maximum Equipment	8GB	4GB	64GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3 SO-DIMM	DDR4
Compact Flash	x	1x	-
SD	-	-	x
HD SATA	optional 1x 2.5" SATA HDD or 1x SATA DOM	1x 2.5" SATA HDD or 1x SATA DOM	x
Internal Storage	-	-	240GB Industrial SSD
Graphic Interface	-	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	2x RS232/422/485 w/ 2.5kv isolated	2x RS232/422/485 w/ 2.5kv isolated	2x RS232
CAN	-	-	-
Interface USB	2x USB 2.0, 1x USB 3.0	4x USB 2.0	2x USB 2.0, 2x USB 3.0
Interface LAN	2x RJ45 10/100/1000 BASE-T	10/100/1000 BASE-T	2x 10/100/1000 BASE-T, WLAN
Interface IO	-	4x Digital Input, 4x Digital Output	-
Mini PCIe	2x	2x	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line-Out	1x Line-Out, 1x Line-In, 1x Mic-In	1x MIC-In
Speakers	-	-	2x 2W
RFID	-	-	-
SIM Card	-	-	1x
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe	2x Mini PCIe	1x PCIe1 Straddle Connector
Operating System	-	-	Debian 12
Operating System Support	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)	-	WINDOWS 10/11, LINUX Ubuntu 22.4
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 30VDC	12 to 30VDC	9-36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	60W	-	19,6W
Operating Temperature	-5°C to 60°C	-5°C to 60°C	-10°C to 60°C
Storage Temperature	-20°C to 75°C	-20°C to 75°C	-
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%
Protection	IP65 front, Shock & Vibration	IP65 front	IP65 front housing, IP40 back housing
Certification	CE, FCC	CE, FCC	CE, FCC, RoHS
Dimensions	384,37 x 309,95 x 63,2 mm	384,37 x 309,95 x 85,41 mm	389,3 x 246,8 x 43,3 mm
Weight	5,1 kg	5,1 kg	4,2 Kg
Material	-	-	Silicone edge, aluminum IPC back housing
Typ. Application	Industrial	Industrial	Industrial, Marine, Digital Signage, Outdoor

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15" Fanless Touch Panel PC Front IP65 Typ 3



15" Factory Automation Panel PC



15,6" Fanless Touch Panel-PC Front IP65 Typ 4

Bestellinformation

Artikel-Nr. PKPX8016-2
15" Fanless Touch Panel PC Typ 3 w/
TouchScreen, IP65, Intel Celeron J1900, up to
2.42GHz, 4GB DDR3L, 3x USB, 2x COM, XGA

Artikel-Nr. PKPF1002
15" Factory Automation Panel-PC, Atom D2550
1.86GHz, 4x USB, 2x isol.COM, 1.024x768

Artikel-Nr. PKPX8232-2
15,6" Fanless Touch Panel-PC Type 4, PCT, 8GB
DDR4, 240GB SSD, Intel® Core 1145G7E,
250cd/m2, HDMI+DP, IP65 front, Linux Debian,
Optical Bonding

Artikel-Nr. DMXZ3010
Option for Einbaumonitor Front IP65 / Touch
Panel-PC, Mounting Clamp, stainless steel,
59x12,8x30 mm

Artikel-Nr. DMXZ3013
Option for 15"-21,5" Capacitive Touch Panel-PC,
2x U-Profile Brackets, stainless steel, 308x30x39
mm

Artikel-Nr. PKBO8229
Option to Fanless Touch Panel-PC with Intel Core
i5-1145G7E CPU, Upgrade to 16GB DDR4
Memory

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15,6" Fanless Touch HMI Panel-PC Front IP65

15,6" Fanless Touch HMI Panel-PC Front IP65 Typ 2

15.6" Factory Autom. Heavy Indust. Panel-PC Typ 1

LCD Size	15,6"	15,6"	15,6"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.366x768)	WXGA (1.366x768)	WXGA (1.366x768)
Display Colors	16,7M	16,7M	16,7M
Brightness	300 cd/m²	300cd/m²	300 cd/m²
Contrast Ratio	-	-	500
Response Time	-	-	-
Viewing Angle	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / L / R)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	Ten points P-Cap (Projected Capacitive Touch)
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA	VESA 100 x 100 mm VESA, Stand
CPU	Intel Core i5-6300U 2.4GHz	Intel J1900 Quad-Core 2.0GHz	On-board Intel® Celeron® quad core processor J1900, up to 2.42GHz, 2M L2 Cache
Chipset	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel i210AT GbE, 1x Intel 8111E GbE	Dual Intel I210AT Gigabit LAN
Watchdog Timer	1 to 255 levels reset	1 to 255 levels reset	1 to 255 sec and from 1 to 255 min (tolerance 15% under room temperature +25°C)
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	-	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR4 SO-DIMM RAM	DDR3L SO-DIMM RAM	DDR3L SO-DIMM
Compact Flash	-	-	-
SD	2x outside-accessible 2,5" drive bay (default)	2x outside-accessible 2,5" drive bay (default)	-
HD SATA	1x mSATA	-	optional 1x 2.5" SATA HDD and 1x SATA DOM
Internal Storage	-	-	-
Graphic Interface	1x HDMI	-	-
Interface COM	3x RS232/422/485	1x RS-232/485, 2x RS232	2x RS232/422/485 w/ 2.5kv isolated
CAN	-	-	-
Interface USB	4x USB 3.0	3x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0
Interface LAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	3x RJ-45 10/100/1000 BASE-T, Optional WLAN	10/100/1000 BASE-T
Interface IO	4x (optional) Digital Input, 4x (optional) Digital Output	-	-
Mini PCIe	2x	1x Mini-card socket (Full Size)	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line Out, 1x MIC In (optional)	-	Line-out / Line-in (optional) / Mic-in (optional) audio Jack
Speakers	-	2x 2W speakers (optional)	-
RFID	-	-	-
SIM Card	-	-	1x SIM card holder
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	2x Mini-PCIe sockets
Operating System	-	-	Windows 8 32bit / 64bit, Windows 7 32bit / 64bit, WinCE 7.0
Operating System Support	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)	-
Input Voltage Nominal	-	12VDC	-
Input Voltage Min/Max	9 to 36VDC	-	12 to 30VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 55°C	-20°C to 55°C	-10°C to 60°C
Storage Temperature	-30°C to 70°C	-30°C to 70°C	-20°C to 75°C
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)	10% ~ 90% relative humidity, non-condensing
Protection	Front panel compliant with IP65	Front panel compliant with IP65	IP66 front
Certification	CE, Class A FCC	CE, Class A FCC	(including EN61000-6-2/EN61000-6-4) CE, FCC
Dimensions	404 x 255 x 56,3 mm (W x H x D)	404 x 255 x 49,2 mm (W x H x D)	417.4 x 312.4 x 63.75 mm
Weight	Tbd.	4,6 Kg	6.4 Kg
Material	Aluminum front bezel and SGCC steel chassis	Aluminum front bezel and SECC steel chassis	Metal housing with robust aluminum front zero bezel for harsh environment
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage	Industrial

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15,6" Fanless Touch HMI Panel-PC Front IP65



15,6" Fanless Touch HMI Panel-PC Front IP65 Typ 2



15.6" Factory Autom. Heavy Indust. Panel-PC Typ 1

Bestellinformation

Artikel-Nr. PKPX8110

15,6" Fanless Touch HMI Panel-PC w/ 4GB DDR4, WXGA, Intel®Core i5-6300U 2.4GHz, 2x GbE LAN, 2x mPCIe, 300 cd/m², 4x Serial ports

Artikel-Nr. PKPX8111

15,6" Fanless Touch HMI Panel-PC Typ 2 w/ 4GB DDR3L, WXGA, Intel®Quad-Core J1900 2.0GHz, 3x GbE LAN, 1x mPCIe, 300 cd/m², 4x serial ports

Artikel-Nr. PKPF2002-1

15.6" Factory Automation Heavy Indust. Panel-PC Typ1, 10th Gen. Intel® Core™ i Process.,P-Cap Screen,DDR4

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15,6" Fanless Touch Panel-PC Typ 3

15,6" Fanless Touch Panel-PC Front
IP65 Typ 2

17" Fanless Touch Panel-PC Typ 8

LCD Size		15,6"	
Active Area		344,2 x 193,6 mm	
Pixel Pitch		-	
Aspect Ratio		16:9	
Display Backlight	-	LED Backlight	-
Display Resolution	-	1080p (1.920x1.080)	-
Display Colors		262K	
Brightness		250 cd/m²	
Contrast Ratio		800:1	
Response Time		15 ms / 15 ms (Tr / Tf)	
Viewing Angle		170° / 170° (H / V)	
Anti Reflection Glass		Anti-glare treatment (chemical etching)	
Strengthened Glass		7H	
Sunlight Readable		-	
Gapless Optical Bonding			
MTBF		15.000 h	
TouchScreen		PCT 10-point Multi-Touch	
Keypad		-	
Cooling System		Fanless	
Mounting System	-	100 x 100 mm VESA	-
CPU		Intel Pentium N4200 Quad Core, up to 2.5GHz	
Chipset		-	
Watchdog Timer		-	
Basic Equipment		4GB	
Maximum Equipment		8GB	
SDRAM		-	
DIMM / MemorySocket		DDR3L	
Compact Flash		-	
SD		-	
HD SATA		-	
Internal Storage		128GB Industrial SSD	
Graphic Interface	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-
Interface COM		1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	
CAN		-	
Interface USB	-	2x USB 2.0, 2x USB 3.0	-
Interface LAN	-	2x 10/100/1000 BASE-T, WLAN	-
Interface IO	-	GPIO, Digital Input, Digital Output	-
Mini PCIe		-	
Camera			
Bluetooth		-	
Audio		1x MIC-In	
Speakers		-	
RFID		-	
SIM Card		-	
GPS		-	
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe		1x PCIe1 Straddle Connector	
Operating System		Linux Ubuntu	
Operating System Support		Windows 10, Linux (32-bit / 64-bit)	
Input Voltage Nominal		-	
Input Voltage Min/Max		100 to 240VACDC	
Output Voltage Nominal		12VDC	
Output Voltage Min/Max		-	
Input Current		16W	
Operating Temperature		-10°C to 60°C	
Storage Temperature		-	
Relative Humidity		10% to 90%	
Protection		IP65 front housing, IP40 back housing	
Certification	-	-	-
Dimensions		389,3 x 246,8 x 49,3 mm (L x W x H)	
Weight		4,2 Kg	
Material		Silicone edge, aluminum back case	
Typ. Application	-	Industrial, Marine, Digital Signage, Outdoor	-



15,6" Fanless Touch Panel-PC Typ 3

15,6" Fanless Touch Panel-PC Front
IP65 Typ 2

17" Fanless Touch Panel-PC Typ 8

Bestellinformation

Artikel-Nr. PKPX8214-2

15,6" Fanless Touch Panel-PC Typ 3, PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 220cd/m²,
HDMI+DP, IP65 front, Linux Deb.

Artikel-Nr. PKPX8214

15,6" Fanless Touch Panel-PC Typ 2 w/ PCT,
FHD, 4GB DDR3L, Intel® Pentium® N4200,
250cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

Artikel-Nr. PKPX8235-1

17" Fanless Touch Panel-PC Typ 8, PCT, 8GB
DDR4, 240GB SSD, Core™ i5-1145G7E,
250cd/m², HDMI+DP, IP65 front, Linux, Opt.Bond.

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17" Fanless Touch Panel-PC Front IP65 Typ 7

17" Fanless Touch HMI Panel-PC Front IP65 Typ 4

17" Fanless Touch Panel-PC Typ 7

LCD Size	17"	17"	
Active Area	337,9 x 270,4 mm	-	
Pixel Pitch	-	-	
Aspect Ratio	5:4	-	
Display Backlight	LED Backlight	LED Backlight	-
Display Resolution	SXGA (1.280x1.024)	SXGA (1.280x1.024)	-
Display Colors	16,7M	16,7M	
Brightness	250 cd/m²	350 cd/m²	
Contrast Ratio	1.000:1	-	
Response Time	3,8 ms / 1,2 ms (Tr / Tf)	-	
Viewing Angle	170° / 160° (H / V)	85° / 85° / 80° / 80° (U / D / R / L)	
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-	
Strengthened Glass	7H	-	
Sunlight Readable	-	-	
Gapless Optical Bonding	-	-	
MTBF	30.000 h	-	
TouchScreen	PCT 10-point Multi-Touch	Resistive TouchScreen	
Keypad	-	-	
Cooling System	Fanless	Fanless	
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA	-
CPU	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)	Intel Core i5-6300U 2.4GHz	
Chipset	-	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	
Watchdog Timer	-	1 to 255 levels reset	
Basic Equipment	8GB	4GB	
Maximum Equipment	16GB	-	
SDRAM	-	-	
DIMM / MemorySocket	DDR4	DDR4 SO-DIMM RAM	
Compact Flash	-	-	
SD	-	2x outside-accessible 2,5" drive bay (default)	
HD SATA	-	1x mSATA	
Internal Storage	128GB Industrial SSD		
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	1x HDMI	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	3x RS232/422/485	
CAN	-	-	
Interface USB	4x USB 3.0	4x USB 3.0	-
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	-
Interface IO	GPIO, Digital Input, Digital Output	4x (optional) Digital Input, 4x (optional) Digital Output	-
Mini PCIe	-	2x	
Camera	-	-	
Bluetooth	-	-	
Audio	1x MIC-In	1x Line Out, 1x MIC In (optional)	
Speakers	-	-	
RFID	-	-	
SIM Card	-	-	
GPS	-	-	
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	-	
Operating System	Linux Ubuntu	-	
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	Windows 10 / 8.1 / 7, Linux (Ubuntu)	
Input Voltage Nominal	-	-	
Input Voltage Min/Max	100 to 240VACDC	9 to 36VDC	
Output Voltage Nominal	12VDC	-	
Output Voltage Min/Max	-	-	
Input Current	37W	-	
Operating Temperature	-10°C to 60°C	-20°C to 55°C	
Storage Temperature	-	-30°C to 70°C	
Relative Humidity	10% to 90%	10 to 95% RH @ 55°C (non-condensing)	
Protection	IP65 front housing, IP40 back housing	Front panel compliant with IP65	
Certification	-	CE, Class A FCC	-
Dimensions	393 x 333 x 70 mm (L x W x H)	470 x 295 x 56,2 mm (W x H x D)	
Weight	4,05 Kg	Tbd.	
Material	Silicone edge, aluminum IPC back housing	Aluminum front bezel and SGCC steel chassis	
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Medical, Digital Signage	-

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17" Fanless Touch Panel-PC Front IP65 Typ 7



17" Fanless Touch HMI Panel-PC Front IP65 Typ 4



17" Fanless Touch Panel-PC Typ 7

Bestellinformation

Artikel-Nr. PKPX8235

17" Fanless Touch Panel-PC Type 7 w/ PCT,
SXGA, 8GB DDR4, Intel® Core i5-7300U,
250cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

Artikel-Nr. PKPX8115

17" Fanless Touch HMI Panel-PC Typ 4 w/ 4GB
DDR4, SXGA, Intel®Core i5-6300U 2.4GHz, 2x
GbE LAN, 2x mPCIe, 350 cd/m², 4x Serial ports

Artikel-Nr. PKPX8218-1

17" Fanless Touch Panel-PC Typ 7 w/PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 250cd/m²,
VGA+DP, IP65 front, LinuxDeb., Opt.Bond.

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17" Fanless Touch Panel-PC Front IP65 Typ 6



17" Fanless Touch Panel PC Front IP65 Typ 3



17" Fanless Touch Panel PC Front IP65

LCD Size	17"	17"	17"
Active Area	337,9 x 270,4 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	5:4	4:3	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	SXGA (1.280x1.024)	SXGA (1.280x1.024)	SXGA (1.280x1.024)
Display Colors	16,7M	16,7M	-
Brightness	250 cd/m²	350 cd/m²	380 cd/m²
Contrast Ratio	1.000:1	1.000:1	1.000:1
Response Time	3,8 ms / 1,2 ms (Tr / Tf)	-	-
Viewing Angle	170° / 160° (H / V)	80°/80°/85°/85° (U/D/L/R)	-
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-	-
Strengthened Glass	7H	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	30.000 h	-	-
TouchScreen	PCT 10-point Multi-Touch	5-wire resistive	5-wire resistive
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	VESA, Stand	VESA, Stand
CPU	Intel Pentium N4200 Quad Core, up to 2.5GHz	Celeron J1900 Quad Core, up to 2.42GHz	Intel Atom D525 1.8GHz
Chipset	-	-	Intel ICH8M
Watchdog Timer	-	1 to 255 seconds and from 1 to 255 minutes	-
Basic Equipment	4GB	4GB	-
Maximum Equipment	8GB	8GB	2GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L	DDR3L SO-DIMM	-
Compact Flash	-	x	1x
SD	-	-	-
HD SATA	-	optional 1x 2.5" SATA HDD or 1x SATA DOM	-
Internal Storage	128GB Industrial SSD	-	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	2x RS232/422/485 w/ 2.5kv isolated	1x Optional, 2x RS232/422/485
CAN	-	-	Optional
Interface USB	2x USB 2.0, 2x USB 3.0	2x USB 2.0, 1x USB 3.0	4x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x RJ45 10/100/1000 BASE-T	2x 10/100/1000 BASE-T
Interface IO	GPIO, Digital Input, Digital Output	-	Optional GPIO
Mini PCIe	-	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x Line-Out	Line-Out
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	2x Mini PCIe	-
Operating System	Linux Ubuntu (preinstalled)	-	-
Operating System Support	Linux Ubuntu + Windows 10	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	12 to 30VDC	12 to 30VDC
Output Voltage Nominal	12VDC	-	-
Output Voltage Min/Max	-	-	-
Input Current	17W	60W	-
Operating Temperature	-10°C to 60°C	-5°C to 60°C	-5°C to 50°C
Storage Temperature	-	-20°C to 75°C	-20°C to 75°C
Relative Humidity	10% to 90%	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	IP65 front housing, IP40 back housing	IP65 front, Shock & Vibration	IP65 front
Certification	-	CE, FCC	-
Dimensions	393 x 340 x 60 mm (L x W x H)	410,4 x 340,4 x 65,9 mm	410,4 x 340,4 x 75,79 mm
Weight	4,05 Kg	6,7 kg	6,3kg
Material	Rubber front case, Aluminum IPC back case	-	ABS+PC Plastic
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial	Industrial



17" Fanless Touch Panel-PC Front IP65
Typ 6



17" Fanless Touch Panel PC Front IP65
Typ 3



17" Fanless Touch Panel PC Front IP65

Bestellinformation

Artikel-Nr. PKPX8218

17" Fanless Touch Panel-PC Front IP65 Typ 6 w/
PCT, 4GB DDR3L, Intel® Pentium® N4200,
SXGA, 250cd/m², HDMI+DP, IP65 front, Linux
Ubuntu, Optical Bonding

Artikel-Nr. PKPX8017-2

17" Fanless Touch Panel PC Typ 3 w/
TouchScreen, IP65, Intel Celeron J1900, up to
2.42GHz, 4GB DDR3L, 3x USB, 2x COM, SXGA

Artikel-Nr. PKPX8005

17" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 4x USB, 2x COM, VGA, 1.280
x 1.024

Artikel-Nr. PKPX8006

17" Fanless Touch Panel PC w/TouchScreen, Intel
Atom D525 1.8GHz, 4x USB, 4x COM, VGA, 1.280
x 1.024

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17" Factory Automation Panel PC

18,5" Fanless Touch HMI Panel-PC
Front IP6518,5" Fanless Touch HMI Panel-PC
Front IP65 Typ 2

LCD Size	17"	18,5"	18,5"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	4:3	-	-
Display Backlight	CCFL Backlight	LED Backlight	LED Backlight
Display Resolution	SXGA (1.280x1.024)	WXGA (1.366x768)	WXGA (1.366x768)
Display Colors	16.7M	16,7M	16,7M
Brightness	380 cd/m²	300cd/m²	300cd/m²
Contrast Ratio	1.000:1	-	-
Response Time	-	-	-
Viewing Angle	80°/80°/85°/85° (U/D/L/R)	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / R / L)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	x	Projected capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fan	Fanless	Fanless
Mounting System	VESA, Stand	100 x 100 mm VESA	100 x 100 mm VESA
CPU	On-board Intel® Atom Dual Core processor D2550, 1.86GHz, 1M L2 Cache	Intel Core i5-6300U 2.4GHz	Intel J1900 Quad-Core 2.0GHz
Chipset	Intel® NM10 Express	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel i210AT GbE, 1x Intel 8111E GbE
Watchdog Timer	1 sec to 255 sec 1 min to 255 min	1 to 255 levels reset	1 to 255 levels reset
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	4GB	-	8GB
SDRAM	-	-	1.333 MHz SDRAM
DIMM / MemorySocket	DDR3 SO-DIMM	DDR4 SO-DIMM RAM	DDR3L SO-DIMM RAM
Compact Flash	1x	-	-
SD	-	2x outside-accessible 2,5" drive bay (default)	2x outside-accessible 2,5" drive bay (default)
HD SATA	1x 2.5" SATA HDD or 1x SATA DOM	1x mSATA	-
Internal Storage	-	-	-
Graphic Interface	-	1x HDMI	-
Interface COM	2x RS232/422/485 w/ 2.5kv isolated	3x RS232/422/485	1x RS-232/485, 2x RS232
CAN	-	-	-
Interface USB	4x USB 2.0	4x USB 3.0	3x USB 2.0, 1x USB 3.0
Interface LAN	10/100/1000 BASE-T	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	3x RJ-45 10/100/1000 BASE-T, Optional WLAN
Interface IO	4x Digital Input, 4x Digital Output	4x (optional) Digital Input, 4x (optional) Digital Output	-
Mini PCIe	2x	2x	1x Mini-card socket (Full Size)
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line-Out, 1x Line-In, 1x Mic-In	1x Line Out, 1x MIC In (optional)	-
Speakers	-	-	2x 2W speakers (optional)
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe	-	-
Operating System	-	-	-
Operating System Support	-	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)
Input Voltage Nominal	-	-	12VDC
Input Voltage Min/Max	12 to 30VDC	9 to 36VDC	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-5°C to 50°C	-20°C to 55°C	-20°C to 55°C
Storage Temperature	-20°C to 75°C	-30°C to 70°C	-30°C to 70°C
Relative Humidity	10% to 90%, non-condensing	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)
Protection	IP65 front	Front panel compliant with IP65	Front panel compliant with IP65
Certification	CE, FCC	CE, Class A FCC	CE, Class A FCC
Dimensions	410.4 x 340.4 x 98.1 mm	470 x 295 x 56,2 mm (W x H x D)	470 x 295 x 49,2 mm (W x H x D)
Weight	6.7 kg	Tbd.	5,7 Kg
Material	-	Aluminum front bezel and SGCC steel chassis	Aluminum front bezel and SECC steel chassis
Typ. Application	Industrial	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage

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17" Factory Automation Panel PC



**18,5" Fanless Touch HMI Panel-PC
Front IP65**



**18,5" Fanless Touch HMI Panel-PC
Front IP65 Typ 2**

Bestellinformation

Artikel-Nr. PKPF1003
17" Factory Automation Panel-PC, Atom D2550
1.86GHz, 4x USB, 2x isol.COM, 1.280x1.024

Artikel-Nr. PKPX8120
18,5" Fanless Touch HMI Panel-PC w/ 4GB DDR4,
WXGA, Intel®Core i5-6300U 2.4GHz, 2x GbE
LAN, 2x mPCIe, 300 cd/m², 4x Serial ports

Artikel-Nr. PKPX8121
18,5" Fanless Touch HMI Panel-PC Typ 2 w/ 4GB
DDR3L, WXGA, Intel®Quad-Core J1900 2.0GHz,
3x GbE LAN, 1x mPCIe, 300 cd/m², 4x serial ports

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18,5" True Flat Touch Panel PC



19" Fanless Touch Panel-PC Typ 4



19" Fanless Touch Panel-PC Front IP65 Typ 3

LCD Size	18.5"		19"
Active Area	-		379,3 x 304,1 mm
Pixel Pitch	-		-
Aspect Ratio	-		5:4
Display Backlight	CCFL Backlight	-	LED Backlight
Display Resolution	WXGA (1.366x768)	-	SXGA (1.280x1.024)
Display Colors	-		16.7M
Brightness	250 cd/m²		250 cd/m²
Contrast Ratio	-		1.000:1
Response Time	-		1,5 ms / 3,5 ms (Tr / Tf)
Viewing Angle	-		170° / 160° (H / V)
Anti Reflection Glass	-		Anti-glare treatment (chemical etching)
Strengthened Glass	-		7H
Sunlight Readable	-		-
Gapless Optical Bonding	-		-
MTBF	-		40.000 h
TouchScreen	Projected Capacitive TouchScreen		PCT 10-point Multi-Touch
Keypad	-		-
Cooling System	Fanless		Fanless
Mounting System	100 x 100 mm VESA	-	100 x 100 mm VESA, Metal stand (included) Stand
CPU	Intel Celeron J1900, 4C, 2.0GHz, 2MB Cache		Intel Pentium N4200 Quad Core, up to 2.5GHz
Chipset	NP-BYT0-A / NC-DK0-A		-
Watchdog Timer	-		-
Basic Equipment	4GB		4GB
Maximum Equipment	8GB		8GB
SDRAM	-		-
DIMM / MemorySocket	DDR3L SO-DIMM		DDR3L
Compact Flash	-		-
SD	-		-
HD SATA	1x 2,5" SATA HDD 320GB 5.400rpm		-
Internal Storage	-		128GB Industrial SSD
Graphic Interface	-	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	3x RS232		1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN	-		-
Interface USB	2x USB 2.0, 2x USB 3.0	-	2x USB 2.0, 2x USB 3.0
Interface LAN	1x 10/100/1000 BASE-T	-	2x 10/100/1000 BASE-T, WLAN
Interface IO	-	-	GPIO, Digital Input, Digital Output
Mini PCIe	1x Full size & 1x Half size		-
Camera	2MP front webcam with autofocus		-
Bluetooth	-		-
Audio	Line-Out / Mic-in		1x MIC-In
Speakers	1x DC-24V Input; 1x DC-12V Output		-
RFID	optional		-
SIM Card	-		-
GPS	-		-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x Full size & 1x Half size mini-PCIe Card slot		1x PCIe1 Straddle Connector
Operating System	Windows 8, WES 8, POS Ready 7, Win 7 Pro, WES 7, Fedora 17, TIZEN		Linux Ubuntu (preinstalled)
Operating System Support	-		Linux Ubuntu + Windows 10
Input Voltage Nominal	24VDC / 5.0A		-
Input Voltage Min/Max	-		100 to 240VACDC
Output Voltage Nominal	-		12VDC
Output Voltage Min/Max	-		-
Input Current	120W		Tbd.
Operating Temperature	0°C to 40°C		-10°C to 60°C
Storage Temperature	-20°C to 60°C		-
Relative Humidity	20% to 80%, non-condensing		10% to 90%
Protection	-		IP65 front housing, IP40 back housing
Certification	CE, FCC	-	-
Dimensions	461,6 x 309,8 x 64,5 mm (W x H x D)		364,5 x 431,5 x 59 mm (H x W x L)
Weight	9 kg (net)		5 Kg
Material	-		Rubber front case, Aluminum IPC back case
Typ. Application	Industrial, Medical	-	Industrial, Marine, Digital Signage, Outdoor

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18,5" True Flat Touch Panel PC



19" Fanless Touch Panel-PC Typ 4

19" Fanless Touch Panel-PC Front IP65
Typ 3

Bestellinformation

Artikel-Nr. PKPX8032

18,5" True Flat Touch Panel PC w/ Projected
Capacitive Touch, Intel Celeron J1900, 2.0 GHz,
4x USB, 4x COM, 1x VGA, 1.366x768

Artikel-Nr. PKPX8240-1

19" Fanless Touch Panel-PC Typ 4 w/PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 250cd/m²,
VGA+DP, IP65 front, Linux Deb., Opt.Bond.

Artikel-Nr. PKPX8240

19" Fanless Touch Panel-PC Front IP65 Typ 3 w/
PCT, 4GB DDR3L, Intel® Pentium® N4200,
SXGA, 250cd/m², HDMI+DP, IP65 front, Linux
Ubuntu, Optical Bonding

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19" Fanless Touch Panel-PC Typ 5, PCT, IP65 Front



19" Fanless Touch Panel PC Front IP65 Typ 2



19" Factory Automation Panel PC

LCD Size	19"	19"	19"
Active Area	379,3 x 304,1 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	5:4	4:3	4:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	SXGA (1.280x1.024)	SXGA (1.280x1.024)	SXGA (1.280x1.024)
Display Colors	16,7M	16,7M	16,7M
Brightness	250 cd/m ²	350 cd/m ²	350 cd/m ²
Contrast Ratio	1.000:1	1.000:1	1.000:1
Response Time	1,5 ms / 3,5 ms (Tr / Tf)	-	-
Viewing Angle	170° / 160° (H / V)	80°/80°/85°/85° (U/D/L/R)	80°/80°/85°/85° (U/D/L/R)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-	-
Strengthened Glass	7H	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	40.000 h	-	-
TouchScreen	PCT 10-point Multi-Touch	5-wire resistive	x
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fan
Mounting System	100 x 100 mm VESA	VESA, Stand	VESA, Stand
CPU	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)	Celeron J1900 Quad Core, up to 2.42GHz	On-board Intel® Atom Dual Core processor D2550, 1.86GHz, 1M L2 Cache
Chipset	-	-	Intel® NM10 Express
Watchdog Timer	-	1 to 255 seconds and from 1 to 255 minutes	1 sec to 255 sec 1 min to 255 min
Basic Equipment	8GB	4GB	4GB
Maximum Equipment	16GB	8GB	4GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR4	DDR3L SO-DIMM	DDR3 SO-DIMM
Compact Flash	-	x	1x
SD	-	-	-
HD SATA	-	optional 1x 2.5" SATA HDD or 1x SATA DOM	1x 2.5" SATA HDD or 1x SATA DOM
Internal Storage	128GB Industrial SSD	-	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	2x RS232/422/485 w/ 2.5kv isolated	2x RS232/422/485 w/ 2.5kv isolated
CAN	-	-	-
Interface USB	4x USB 3.0	2x USB 2.0, 1x USB 3.0	4x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x RJ45 10/100/1000 BASE-T	10/100/1000 BASE-T
Interface IO	GPIO, Digital Input, Digital Output	-	4x Digital Input, 4x Digital Output
Mini PCIe	-	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x Line-Out	1x Line-Out, 1x Line-In, 1x Mic-In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	2x Mini PCIe	2x Mini PCIe
Operating System	Linux Ubuntu	-	-
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	12 to 30VDC	12 to 30VDC
Output Voltage Nominal	12VDC	-	-
Output Voltage Min/Max	-	-	-
Input Current	48W	60W	-
Operating Temperature	-10°C to 60°C	-5°C to 50°C	-5°C to 50°C
Storage Temperature	-	-20°C to 75°C	-20°C to 75°C
Relative Humidity	10% to 90%	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	IP65 front housing, IP40 back housing	IP65 front, Shock & Vibration	IP65 front
Certification	-	CE, FCC	CE, FCC
Dimensions	431,5 x 364,5 x 69 mm (L x W x H)	457,64 x 379,24 x 61,25 mm	457.64 x 379.24 x 83.5 mm
Weight	5 Kg	6,7 kg	6.7 kg
Material	Silicone edge, aluminum IPC back housing	-	-
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial	Industrial



**19" Fanless Touch Panel-PC Typ 5,
PCT, IP65 Front**



**19" Fanless Touch Panel PC Front IP65
Typ 2**



19" Factory Automation Panel PC

Bestellinformation

Artikel-Nr. PKPX8242

19" Fanless Touch Panel-PC Typ 5, PCT, IP65
Front, IK7, 8GB DDR4, Intel Core i5-1145G7E,
250cd/m², VGA+DP+HDMI, RS232, 240GB SSD

Artikel-Nr. PKPX8018-2

19" Fanless Touch Panel PC Typ 2 w/
TouchScreen, IP65, Intel Celeron J1900, up to
2.42GHz, 4GB DDR3L, 3x USB, 2x COM, SXGA

Artikel-Nr. PKPF1004

19" Factory Automation Panel-PC, Atom D2550
1.86GHz, 4x USB, 2x isol.COM, 1.280x1.024

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21,5" Fanless Touch Panel-PC Typ 7

21,5" Fanless Touch Panel-PC Typ 2,
Full IP6821,5" Fanless Touch Panel-PC Typ 1,
Full IP68

LCD Size	21,5"	21,5"
Active Area	-	-
Pixel Pitch	0,24825 x 0,24825 mm (H x V)	0,24825 x 0,24825 mm (H x V)
Aspect Ratio	-	-
Display Backlight	-	LED Backlight
Display Resolution	-	1080p (1.920x1.080)
Display Colors	-	16,7M
Brightness	-	1.600 cd/m ² (250 cd/m ² optional)
Contrast Ratio	-	900:1
Response Time	-	-
Viewing Angle	-	170° / 160° (H / V)
Anti Reflection Glass	-	-
Strengthened Glass	-	-
Sunlight Readable	-	-
Gapless Optical Bonding	-	-
MTBF	-	100.000 hrs
TouchScreen	-	Projected capacitive TouchScreen
Keypad	-	-
Cooling System	-	Fanless
Mounting System	-	100 x 100 mm VESA
CPU	-	7th Gen. Intel Core i7/i5/i3 or Intel Celeron G3930TE
Chipset	-	Intel® H110 PCH, Kabylake
Watchdog Timer	-	Programmable 1 to 255 sec.
Basic Equipment	-	4GB
Maximum Equipment	-	32GB
SDRAM	-	260-pin DDR4 2.133MHz
DIMM / MemorySocket	-	-
Compact Flash	-	-
SD	-	-
HD SATA	-	64GB mSATA
Internal Storage	-	-
Graphic Interface	-	-
Interface COM	-	2x RS232
CAN	-	-
Interface USB	-	2x USB 2.0
Interface LAN	-	2x M12 10/100/1000 BASE-T
Interface IO	-	-
Mini PCIe	-	2x
Camera	-	-
Bluetooth	-	-
Audio	-	-
Speakers	-	-
RFID	-	-
SIM Card	-	-
GPS	-	-
Mobile Communication 2G	-	-
Mobile Communication 3G	-	-
PCIe	-	-
Operating System	-	-
Operating System Support	-	Windows 10, Linux
Input Voltage Nominal	-	12VDC
Input Voltage Min/Max	-	9 to 36V (optional)
Output Voltage Nominal	-	-
Output Voltage Min/Max	-	-
Input Current	-	-
Operating Temperature	-	0°C to 50°C
Storage Temperature	-	-20°C to 60°C
Relative Humidity	-	0 to 90% (non-condensing)
Protection	-	Full IP68 waterproof
Certification	-	-
Dimensions	-	544 x 43,5 x 335,5 mm (W x D x H)
Weight	-	7,7 kg
Material	-	Aluminum extrusion and heavy-duty steel
Typ. Application	-	Industrial, Marine, Outdoor



21,5" Fanless Touch Panel-PC Typ 7

21,5" Fanless Touch Panel-PC Typ 2,
Full IP6821,5" Fanless Touch Panel-PC Typ 1,
Full IP68

Bestellinformation

Artikel-Nr. PKPX8228-1

21,5" Fanless Touch Panel-PC Front IP65 Typ 7
w/PCT, 8GB DDR4, 240GB SSD, Core™
i5-1145G7E, FHD, 250cd/m², HDMI+DP, LinuxU,
Opt.Bond.

Artikel-Nr. PKPX8224

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Celeron G3930TE
2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8225

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i3-7101TE
3.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8226

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i5-7500T
2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8227

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i7-7700T
2.9GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8220

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Celeron 3955U
2.0GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8221

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i3-6100U
2.3GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8222

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i5-6300U
2.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8223

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full
IP68, FHD, 4GB DDR4, Intel®Core i7-6600U
2.6GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

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21,5" Fanless Touch HMI Panel-PC, Full IP65



21,5" Fanless Touch HMI Panel-PC Front IP65 Typ 3



21,5" Fanless Touch HMI Panel-PC Front IP65 Typ 4

LCD Size	21,5"	21,5"	21,5"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	16,7M	16,7M
Brightness	250cd/m ²	250cd/m ²	250cd/m ²
Contrast Ratio	-	-	-
Response Time	-	-	-
Viewing Angle	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / R / L)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	Projected capacitive TouchScreen	Projected capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA	100 x 100 mm VESA
CPU	Intel Core i5-6300U 2.4GHz	Intel Core i5-6300U 2.4GHz	Intel J1900 Quad-Core 2.0GHz
Chipset	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel® i210AT GbE, 1x Intel® 8111E GbE
Watchdog Timer	1 to 255 levels reset	1 to 255 levels reset	1 to 255 levels reset
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	-	-	8GB
SDRAM	-	-	1.066 / 1.333 MHz SDRAM
DIMM / MemorySocket	DDR4 SO-DIMM RAM	DDR4 SO-DIMM RAM	DDR3L SO-DIMM RAM
Compact Flash	-	-	-
SD	2x outside-accessible 2,5" drive bay (default)	2x outside-accessible 2,5" drive bay (default)	2x outside-accessible 2,5" drive bay (default)
HD SATA	1x mSATA	1x mSATA	-
Internal Storage	-	-	-
Graphic Interface	1x (optional) HDMI	1x HDMI	-
Interface COM	3x RS232/422/485	3x RS232/422/485	1x RS-232/485, 2x RS232
CAN	-	-	-
Interface USB	4x USB 3.0	4x USB 3.0	3x USB 2.0, 1x USB 3.0
Interface LAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	3x RJ-45 10/100/1000 BASE-T, Optional WLAN
Interface IO	4x (optional) Digital Input, 4x (optional) Digital Output	4x (optional) Digital Input, 4x (optional) Digital Output	-
Mini PCIe	2x	2x	1x Mini-card socket (Full Size)
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line Out, 1x MIC In (optional)	1x Line Out, 1x MIC In (optional)	-
Speakers	-	-	2x 2W speakers (optional)
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)
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	-	-	-
Operating Temperature	-10°C to 50°C	-20°C to 55°C	-20°C to 55°C
Storage Temperature	-20°C to 60°C	-30°C to 70°C	-30°C to 70°C
Relative Humidity	10 to 95% RH @ 50°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)
Protection	Full IP65 stainless steel chassis w/ waterproof connectors	Front panel compliant with IP65	Front panel compliant with IP65
Certification	CE, Class A FCC	CE, Class A FCC	CE, Class A FCC
Dimensions	620,3 x 423 x 62 mm (W x H x D)	536 x 332 x 55,5 mm (W x H x D)	536 x 332 x 48,4 mm (W x H x D)
Weight	11,56 kg	Tbd.	7 Kg
Material	Stainless steel chassis	Aluminum front bezel and SGCC steel chassis	Aluminum front bezel and SECC steel chassis
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage

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21,5" Fanless Touch HMI Panel-PC, Full IP65



21,5" Fanless Touch HMI Panel-PC Front IP65 Typ 3



21,5" Fanless Touch HMI Panel-PC Front IP65 Typ 4

Bestellinformation

Artikel-Nr. PKPX8126

21,5" Fanless Touch HMI Panel-PC; Full IP65
All-around w/ 4GB DDR4, Full HD, Intel@Core
i5-6300U 2.4GHz, 2x GbE LAN, 2x mPCIe, 250
cd/m², 4x Serial ports

Artikel-Nr. PKPX8125

21,5" Fanless Touch HMI Panel-PC Typ 3 w/ 4GB
DDR4, Full HD, Intel@Core i5-6300U 2.4GHz, 2x
GbE LAN, 2x mPCIe, 250 cd/m², 4x Serial ports

Artikel-Nr. PKPX8127

21,5" Fanless Touch HMI Panel-PC Typ 4 w/ 4GB
DDR3L, Full HD, Intel@Quad-Core J1900 2.0GHz,
3x GbE LAN, 1x mPCIe, 250 cd/m², 4x serial ports

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21,5" Fanless Touch Panel-PC Front
IP65 Typ 6



21,5" Fanless Touch Panel-PC Typ 8



23,8" Fanless Touch Panel-PC Typ 3

LCD Size	21,5"		
Active Area	477 x 268 mm		
Pixel Pitch	-		
Aspect Ratio	16:9		
Display Backlight	LED Backlight	-	-
Display Resolution	1080p (1.920x1.080)	-	-
Display Colors	16,7M		
Brightness	250 cd/m²		
Contrast Ratio	1.000:1		
Response Time	1,5 ms / 3,5 ms (Tr / Tf)		
Viewing Angle	170° / 160° (H / V)		
Anti Reflection Glass	Anti-glare treatment (chemical etching)		
Strengthened Glass	7H		
Sunlight Readable	-		
Gapless Optical Bonding			
MTBF	40.000 h		
TouchScreen	PCT 10-point Multi-Touch		
Keypad	-		
Cooling System	Fanless		
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	-	-
CPU	Intel Core i5-7300U Kaby Lake, Dual Core 2.6GHz		
Chipset	Fintek F81866D		
Watchdog Timer	-		
Basic Equipment	8GB		
Maximum Equipment	16GB		
SDRAM	-		
DIMM / MemorySocket	DDR4		
Compact Flash	-		
SD	-		
HD SATA	-		
Internal Storage	128GB Industrial SSD		
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS	-	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN		
CAN	-		
Interface USB	2x USB 2.0, 2x USB 3.0	-	-
Interface LAN	2x 10/100/1000 BASE-T, WLAN	-	-
Interface IO	GPIO, Digital Input, Digital Output	-	-
Mini PCIe	1x		
Camera			
Bluetooth	-		
Audio	1x MIC-In		
Speakers	-		
RFID	-		
SIM Card	-		
GPS	-		
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector		
Operating System	Linux Ubuntu (preinstalled)		
Operating System Support	Linux Ubuntu + Windows 10		
Input Voltage Nominal	-		
Input Voltage Min/Max	100 to 240VACDC		
Output Voltage Nominal	12VDC		
Output Voltage Min/Max	-		
Input Current	42W		
Operating Temperature	-10°C to 60°C		
Storage Temperature	-		
Relative Humidity	10% to 90%		
Protection	IP65 front housing, IP40 back housing		
Certification	-	-	-
Dimensions	532 x 331 x 71 mm (L x W x H)		
Weight	5,2 Kg		
Material	Aluminum		
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	-	-



**21,5" Fanless Touch Panel-PC Front
IP65 Typ 6**



21,5" Fanless Touch Panel-PC Typ 8



23,8" Fanless Touch Panel-PC Typ 3

Bestellinformation

Artikel-Nr. PKPX8228

21,5" Fanless Touch Panel-PC Front IP65 Typ 6
w/ PCT, 8GB DDR3L, Intel Core i5-7300U, FHD,
250cd/m², HDMI+DP, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPX8229-1

21,5" Fanless Touch Panel-PC Typ 8 w/PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 250cd/m²,
VGA+DP, IP65 front, Linux Debian, Opt.Bond.

Artikel-Nr. PKPX8247-1

23,8" Fanless Touch Panel-PC Typ 3 w/PCT, 8GB
RAM, 240GB SSD, Core™ i5-1145G7E, 500cd/m²,
HDMI+DP+USB, LinuxD, Opt.Bond.

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23,8" Fanless Touch Panel-PC Typ 4



24" Fanless Touch Panel-PC Typ 3



27" Fanless Touch Panel-PC Typ 3

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
Audio			
Speakers			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-



23,8" Fanless Touch Panel-PC Typ 4



24" Fanless Touch Panel-PC Typ 3



27" Fanless Touch Panel-PC Typ 3

Bestellinformation

Artikel-Nr. PKPX8248-1

23,8" Fanless Touch Panel-PC Typ 4 w/PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 500cd/m²,
VGA+DP+USB, IP65, Linux Debian, Opt.Bond.

Artikel-Nr. PKPX8248

24" Fanless Touch Panel-PC Typ 3 w/PCT, 4GB
DDR3L, Pentium N4200, 500cd/m²,
VGA+DP+USB, IP65, Linux Ubuntu, Opt.Bond.

Artikel-Nr. PKPX8251-1

27" Fanless Touch Panel-PC Typ 3, PCT, 8GB
DDR4, 240GB SSD, Core™ i5-1145G7E,
300cd/m², HDMI+DP, IP65 front, Linux, Opt.Bond.

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27" Fanless Touch Panel-PC Front IP65 27" Fanless Touch Panel-PC Typ 2

Musterartikel

LCD Size	27"	-	-
Active Area	597,6 x 336,2 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	-	-
Display Resolution	1080p (1.920x1.080)	-	-
Display Colors	16,7M	-	-
Brightness	300 cd/m²	-	-
Contrast Ratio	3.000:1	-	-
Response Time	7 ms / 5 ms (Tr / Tf)	-	-
Viewing Angle	178° / 178° (H / V)	-	-
Anti Reflection Glass	Anti-glare treatment (chemical etching)	-	-
Strengthened Glass	7H	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	30.000 h	-	-
TouchScreen	PCT 10-point Multi-Touch	-	-
Keypad	-	-	-
Cooling System	Fanless	-	-
Mounting System	100 x 100 mm VESA	-	-
CPU	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)	-	-
Chipset	-	-	-
Watchdog Timer	-	-	-
Basic Equipment	8GB	-	-
Maximum Equipment	16GB	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR4	-	-
Compact Flash	-	-	-
SD	-	-	-
HD SATA	-	-	-
Internal Storage	128GB Industrial SSD	-	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	-	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	-	-
CAN	-	-	-
Interface USB	4x USB 3.0	-	-
Interface LAN	2x 10/100/1000 BASE-T, WLAN	-	-
Interface IO	GPIO, Digital Input, Digital Output	-	-
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	-	-
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	-	-
Operating System	Linux Ubuntu	-	-
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	-	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	-	-
Output Voltage Nominal	12VDC	-	-
Output Voltage Min/Max	-	-	-
Input Current	74W	-	-
Operating Temperature	-10°C to 60°C	-	-
Storage Temperature	-	-	-
Relative Humidity	10% to 90%	-	-
Protection	IP65 front housing, IP40 back housing	-	-
Certification	-	-	-
Dimensions	663 x 405 x 62 mm (L x W x H)	-	-
Weight	8 Kg	-	-
Material	Silicone edge, aluminum IPC back housing	-	-
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	-	-

27" Fanless Touch Panel-PC Front IP65
Typ 2

27" Fanless Touch Panel-PC Typ 2

Musterartikel

Bestellinformation

Artikel-Nr. PKPX8251

27" Fanless Touch Panel-PC Type 2 w/ PCT, FHD,
8GB DDR4, Intel® Core i5-7300U, 300cd/m²,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

Artikel-Nr. PKPX8250-1

27" Fanless Touch Panel-PC Typ 2, PCT, 8GB
DDR4, 120GB SSD, Atom® x6413, 300cd/m²,
HDMI+DP, IP65 front, Linux, Opt.Bond.

Artikel-Nr. Artikelnr.

Bezeichnung 1, Bezeichnung 2

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5" Fanless Touch HMI Slim Panel-PC
Front IP65



7" Panel-Mount Panel-PC Typ 1



7" Panel-Mount Panel-PC Typ 2

LCD Size	5"	7"	7"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	960 x 540 QHD Special Resolution	WVGA (800x480)	WSVGA (1.024x600)
Display Colors	-	262K	16.7M
Brightness	350cd/m ²	300 to 350 cd/m ²	800 cd/m ²
Contrast Ratio	-	250:1 to 400:1	560:1
Response Time	-	-	-
Viewing Angle	-	140°, 130° (H, V)	150°, 145° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	20.000 hours	50.000 hours
TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	50 x 50 mm VESA, Optional Stand	75 x 75 mm VESA	75 x 75 mm VESA
CPU	ARM Cortex-A7 Dual Core 1GHz, MTK MT2601	ARM Cortex A9 1Ghz Quad/Dual Core iMX6	ARM Cortex A9 1Ghz Quad/Dual/Single iMX6
FSB Frequency	-	-	-
Chipset	-	-	-
Watchdog Timer	-	-	-
Basic Equipment	512MB	1 GB (Dual) / 2 GB (Quad)	1 GB (Single/Dual) / 2 GB (Quad)
Maximum Equipment	-	4GB	4GB
SDRAM	-	DDR3 SDRAM	DDR3 SDRAM
DIMM / MemorySocket	LPDDR2	-	-
Compact Flash	-	eMMC	eMMC
SD	-	1x microSD card slot	1x microSD card slot
HD SATA	-	-	-
Internal Storage	4GB eMMC	-	-
Graphic Interface	-	1x HDMI	1x HDMI
Interface COM	1x RS232/422/485 (DB9 male)	1x RS-232, 1x RS-485	1x RS-232, 1x RS-485
CAN	2.0b (optional)	2x Optional	2x Optional
Interface USB	2x USB 2.0	3x USB 2.0	3x USB 2.0
Interface LAN	1x 10/100 BASE-T, IEEE 802.11a/b/g/n/ac WLAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	4x 3.3V GPIO GPIO	8-bit (+ 8-bit optional) GPIO	8-bit (+ 8-bit optional) GPIO
Mini PCIe	-	-	-
Camera	Front: 2.0 MP	-	-
Bluetooth	4.1 (BLE, HS compliant)	-	-
PS/2	-	-	-
Audio	1x built-in microphone	MIC-In	MIC-In
Speakers	1x built-in (0,8W)	-	-
Headphone	-	x	x
RFID	-	-	-
SIM Card	1x mini-SIM (2FF) slot	-	1x SIM Card holder
GPS	Option: GPS mouse (GPS/GLONASS/Beidou)	-	-
Mobile Communication 2G	GSM+GPRS	-	-
Mobile Communication 3G	HSDPA+WCDMA	-	Optional UMTS
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 5.1	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 24VDC	9 to 36V	9 to 36V
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-10°C to 50°C	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-20°C to 60°C	-	-
Relative Humidity	5% to 90% RH	-	-
Protection	Front bezel IP65	-	-
Certification	MIL-STD-810F, MIL-STD-810G, RoHS	CE, FCC	CE, FCC
Dimensions	149,3 x 110 x 36,8 mm (W x H x D)	213 x 135 x 42 mm (W x H x D)	213 x 135 x 47 mm (W x H x D)
Weight	0,350 kg	650 g	800 g
Material	-	Light weight aluminum enclosure	Light weight aluminum enclosure
Typ. Application	Industrial, Automotive, Medical, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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5" Fanless Touch HMI Slim Panel-PC Front IP65



7" Panel-Mount Panel-PC Typ 1



7" Panel-Mount Panel-PC Typ 2

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. PKPX4510

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4510-1

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4511

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4511-1

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4512

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4513

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4513-1

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4514

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4514-1

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4512-1

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6Q, 1GHz Quadcore, 2GB DDR3, 4GB NAND, Yocto, CAN, OverVoltage protection

Artikel-Nr. PKPX4509

7" Panel-Mount Panel-PC, 800x480, 350cd/m², Resistive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3 4GB NAND, Yocto

Artikel-Nr. PKPX4515

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4516

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4517

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4518

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4519

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4519-1

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4520

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4520-1

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4525

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz Quadcore, 2GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4526

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz Singlecore, 1GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4526-1

7" Panel-Mount Panel-PC, 1.024x600, 800cd/m², Projected Capacitive TouchScreen, iMX 6S, 1GHz Singlecore, 1GB DDR3, 4GB NAND, Yocto, CAN, OverVoltage protection

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7" Fanless Touch Panel-PC Typ 1



7" Fanless Touch Panel-PC Typ 2



Vehicle Mount Computer 110/111

LCD Size			7"
Active Area			-
Pixel Pitch			-
Aspect Ratio			-
Display Backlight	-	-	LED Backlight
Display Resolution	-	-	WSVGA (1.024x600)
Display Colors			-
Brightness			500 cd/m ²
Contrast Ratio			800:1
Response Time			-
Viewing Angle			-
Anti Reflection Glass			-
Strengthened Glass			-
Sunlight Readable			-
Gapless Optical Bonding			-
MTBF			-
TouchScreen			5-wire resistant touch
Keypad			-
Cooling System			Fanless
Mounting System	-	-	VESA 75 / 100 VESA, Stand
CPU			ARM Cortex-A9 Dual Core 1GHz
FSB Frequency			-
Chipset			-
Watchdog Timer			-
Basic Equipment			2GB
Maximum Equipment			-
SDRAM			-
DIMM / MemorySocket			DDR3L
Compact Flash			-
SD			1x Micro SDHC Slot
HD SATA			-
Internal Storage			-
Graphic Interface	-	-	-
Interface COM			1x RS232/485
CAN			CAN1 2.0B
Interface USB	-	-	3x USB 2.0
Interface LAN	-	-	Optional WLAN
Interface IO	-	-	3x GPIO
Mini PCIe			1x Mini PCIe, 1x Half Mini PCIe
Camera			-
Bluetooth			-
PS/2			-
Audio			1x Line-out, 1x Mic-in, 1x internal Mic-In
Speakers			2x 2W
Headphone			-
RFID			-
SIM Card			1x
GPS			1x u-blox NEO-M8N module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			2x Mini PCIe
Operating System			-
Operating System Support			Android 5.1 / Linux
Input Voltage Nominal			-
Input Voltage Min/Max			9 to 36VDC
Output Voltage Nominal			-
Output Voltage Min/Max			-
Input Current			-
Operating Temperature			-20°C to 70°C
Storage Temperature			-30°C to 80°C
Relative Humidity			10% to 90%, non-condensing
Protection			IP54 front panel
Certification	-	-	CE, e13 (Vehicle), Class B FCC
Dimensions			212,9 x 144,97 x 40 mm (W x H x D)
Weight			1,3kg
Material			Plastic PC, ABS + Metal heat-sink
Typ. Application	-	-	Automotive



7" Fanless Touch Panel-PC Typ 1



7" Fanless Touch Panel-PC Typ 2



Vehicle Mount Computer 110/111

Bestellinformation

Artikel-Nr. PKPX8700

7" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 500cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8600

7" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 500cd/m², 2x USB, 1x LAN, 1x COM,
Android

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

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8" Fanless Touch HMI Slim Panel-PC Typ 2



Vehicle Mount Computer 220



9,7" Fanless Touch Panel-PC Typ 1

LCD Size	8"	8"	
Active Area	-	-	
Pixel Pitch	-	-	
Aspect Ratio	16:9	-	
Display Backlight	LED Backlight	LED Backlight	-
Display Resolution	WSVGA (1.024x600)	720p (1.280x720)	-
Display Colors	-	-	
Brightness	500 cd/m ²	1.000cd/m ²	
Contrast Ratio	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	Projected Capacitive TouchScreen	PCT	
Keypad	-	F1-F4 programmable function keys	
Cooling System	Fanless	Fanless	
Mounting System	75 x 75 mm VESA	VESA 75 VESA	-
CPU	ARM Cortex-A35 Quad Core up to 1.5GHz	ARM Cortex-A53 NXP i.MX 8M Quad Core, up to 1.3GHz	
FSB Frequency	-	-	
Chipset	Rockchip PX30	-	
Watchdog Timer	-	-	
Basic Equipment	2GB	4GB	
Maximum Equipment	-	-	
SDRAM	DDR4	-	
DIMM / MemorySocket	-	LPDDR4 SDRAM 2.400MHz	
Compact Flash	-	-	
SD	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 , 1x RS232/422/485	1x RS232, 1x RS232 (TX/RX)/RS422/RS485 (via M12), 1x RS232 TX/RX (via M12)	
CAN	OBD-II	1x Isolated CAN 2.0B	
Interface USB	3x USB 2.0	3x USB 2.0	-
Interface LAN	1x 10/100 BASE-T, IEEE 802.11 a/b/g/n/ac WLAN	1x 10/100/1000 BASE-T, WLAN	-
Interface IO	(dry contract / galvanically isolated) GPIO, 3x Digital Input, 3x Digital Output	2x GPIO	-
Mini PCIe	Mini PCIe interface	2x	
Camera	Front: 8.0 MP CMOS MIPI-CSI type AF	-	
Bluetooth	4.2 low power BLE	x	
PS/2	-	-	
Audio	1x built-in microphone	1x Line-out, 1x Mic-in	
Speakers	1x built-in (1W)	2x Built-in 2W speakers	
Headphone	-	-	
RFID	13,56MHz RFID & NFC reader	-	
SIM Card	1x nano SIM card	1x Micro-SIM slot	
GPS	optional	1x U-blox NEO-M8N	
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	
Operating System	-	-	
Operating System Support	Android 8.1 / (Linux Buildroot by request)	LINUX / ANDROID (by request)	
Input Voltage Nominal	-	-	
Input Voltage Min/Max	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	-30°C to 60°C	
Storage Temperature	-20°C to 70°C	-40°C to 80°C	
Relative Humidity	5% to 90% RH @ 50°C (non-condensing)	10% to 90%, non-condensing	
Protection	-	Full IP65	
Certification	CE, E-Mark e13 (Vehicle), FCC	CE, e13 (Vehicle), Class B FCC	-
Dimensions	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	0,94 Kg	2,4 kg	
Material	-	plastic	
Typ. Application	Industrial, Automotive, Medical, Digital Signage	Automotive, Marine, Outdoor	-

8" Fanless Touch HMI Slim Panel-PC
Typ 2

Vehicle Mount Computer 220



9,7" Fanless Touch Panel-PC Typ 1

Bestellinformation

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

Artikel-Nr. PKPX8710

9,7" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC PKPX8710, Amlogic A311D
Cortex-A73 + Cortex-A53, 300cd/m², 1x HDMI, 4x
USB, 1x LAN, 1x RS232, Android

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9,7" Fanless Touch Panel-PC Typ 2



10,1" Panel-Mount Panel-PC Typ 1



10,1" Panel-Mount Panel-PC Typ 2

LCD Size		10,1"	10,1"
Active Area		-	-
Pixel Pitch		-	-
Aspect Ratio		-	-
Display Backlight	-	LED Backlight	LED Backlight
Display Resolution	-	WXGA (1.280x800)	WXGA (1.280x800)
Display Colors		16,7M	16,7M
Brightness		240 to 300 cd/m²	500 cd/m²
Contrast Ratio		600:1 to 800:1	800:1
Response Time		-	-
Viewing Angle		170°, 170° (H, V)	160°, 160° (H, V)
Anti Reflection Glass		-	-
Strengthened Glass		-	-
Sunlight Readable		-	-
Gapless Optical Bonding		-	-
MTBF		15.000 hours	50.000 hours
TouchScreen		Projected Capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad		-	-
Cooling System		Fanless	Fanless
Mounting System	-	75 x 75 mm VESA	75 x 75 mm VESA
CPU		ARM Cortex A9 1Ghz Quad/Dual Core iMX6	ARM Cortex A9 1Ghz Quad/Dual/Single iMX6
FSB Frequency		-	-
Chipset		-	-
Watchdog Timer		-	-
Basic Equipment		1 GB (Dual) / 2 GB (Quad)	1 GB (Dual) / 2 GB (Single/Quad)
Maximum Equipment		4GB	4GB
SDRAM		DDR3 SDRAM	DDR3 SDRAM
DIMM / MemorySocket		-	-
Compact Flash		eMMC	eMMC
SD		1x microSD card slot	1x microSD card slot
HD SATA		-	-
Internal Storage		-	-
Graphic Interface	-	1x HDMI	1x HDMI
Interface COM		1x RS-232, 1x RS-485	1x RS-232, 1x RS-485
CAN		2x Optional	2x Optional
Interface USB	-	3x USB 2.0	3x USB 2.0
Interface LAN	-	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	-	8-bit (+ 8-bit optional) GPIO	8-bit (+ 8-bit optional) GPIO
Mini PCIe		-	-
Camera		-	-
Bluetooth		-	-
PS/2		-	-
Audio		MIC-In	MIC-In
Speakers		-	-
Headphone		x	x
RFID		-	-
SIM Card		-	-
GPS		-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	Optional UMTS
PCIe		-	-
Operating System		-	-
Operating System Support		Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal		-	-
Input Voltage Min/Max		9 to 36V	9 to 36V
Output Voltage Nominal		-	-
Output Voltage Min/Max		-	-
Input Current		-	-
Operating Temperature		0°C to 50°C	-20°C to 70°C
Storage Temperature		-	-
Relative Humidity		-	-
Protection		-	-
Certification	-	CE, FCC	CE, FCC
Dimensions		265 x 195 x 42 mm (W x H x D)	280 x 250 x 52 mm (W x H x D)
Weight		970 g	1.600 g
Material		Light weight aluminum enclosure	Light weight aluminum enclosure
Typ. Application	-	Industrial, Digital Signage	Industrial, Digital Signage

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9,7" Fanless Touch Panel-PC Typ 2



10,1" Panel-Mount Panel-PC Typ 1



10,1" Panel-Mount Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPX8610

9,7" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 300cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. PKPX4540

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4546

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 2GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4540-1

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4546-1

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 2GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4541

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4547

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 2GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4541-1

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4547-1

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 2GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4542

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4548

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4543

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4548-1

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4543-1

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4549

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4544

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4549-1

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4544-1

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4550

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4545

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4550-1

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4542-1

10,1" Panel-Mount Panel-PC, 1.280x800,
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz Quadcore, 2GB DDR3, 4GB NAND,
Yocto, CAN, OverVoltage protection

Artikel-Nr. PKPX4551

10,1" Panel-Mount Panel-PC, 1.280x800,
500cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu

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10,1" Panel-Mount HMI Panel-PC



10,1" Fanless Touch Panel-PC Typ 1



10,1" Fanless Touch Panel-PC Typ 2

LCD Size	10,1"		
Active Area	220 x 138 mm		
Pixel Pitch	-		
Aspect Ratio	-		
Display Backlight	LED Backlight	-	-
Display Resolution	WXGA (1.280x800)	-	-
Display Colors	16,7M		
Brightness	350 cd/m²		
Contrast Ratio	-		
Response Time	-		
Viewing Angle	170°, 170° (H, V)		
Anti Reflection Glass	-		
Strengthened Glass	-		
Sunlight Readable	-		
Gapless Optical Bonding	-		
MTBF	20.000 hours		
TouchScreen	Projected Capacitive TouchScreen		
Keypad	-		
Cooling System	Fanless		
Mounting System	75 x 75 mm VESA	-	-
CPU	ARM Cortex A9 1.0Ghz Dual-Core		
FSB Frequency	-		
Chipset	-		
Watchdog Timer	-		
Basic Equipment	1GB		
Maximum Equipment	4GB		
SDRAM	DDR3 SDRAM		
DIMM / MemorySocket	-		
Compact Flash	x		
SD	1x microSD card slot		
HD SATA	-		
Internal Storage	-		
Graphic Interface	1x HDMI	-	-
Interface COM	1x RS-232, 1x RS-232 (optional), 1x RS-485, 1x RS-485 (optional)		
CAN	Optional		
Interface USB	3x USB 2.0	-	-
Interface LAN	1x RJ-45 10/100/1000 BASE-T, Optional WLAN	-	-
Interface IO	16-bit GPIO	-	-
Mini PCIe	-		
Camera	-		
Bluetooth	Optional		
PS/2	-		
Audio	1x Line In, 1x MIC-In		
Speakers	2x		
Headphone	x		
RFID	-		
SIM Card	-		
GPS	-		
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional UMTS	-	-
PCIe	-		
Operating System	-		
Operating System Support	Android 4.2.2 / 4.4.2, (Ubuntu 11.10 optional)		
Input Voltage Nominal	-		
Input Voltage Min/Max	9 to 36VDC with overvoltage protection		
Output Voltage Nominal	-		
Output Voltage Min/Max	-		
Input Current	-		
Operating Temperature	0°C to 50°C		
Storage Temperature	-20°C to 60°C		
Relative Humidity	-		
Protection	-		
Certification	CE, FCC	-	-
Dimensions	195 x 265 x 43 mm		
Weight	1 Kg		
Material	Light weight aluminum enclosure		
Typ. Application	Industrial, Automotive, Digital Signage	-	-

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10,1" Panel-Mount HMI Panel-PC



10,1" Fanless Touch Panel-PC Typ 1



10,1" Fanless Touch Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPA4400

10,1" Panel-Mount HMI Panel-PC, 1.280x800,
350cd/m², Projected Capacitive TouchScreen,
Cortex A9, 1GHz, Dual Core, 1GB DDR3, 4GB
NAND, 8x optical isolated digital input, Android

Artikel-Nr. PKPX8720

10,1" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 350cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8620

10,1" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC PKPX8620, Amlogic S905D3
Cortex A-53, 350cd/m², 2x USB, 1x LAN, 1x COM,
Android

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Vehicle Mount Computer 320-AC0



13,3" Fanless Touch Panel-PC Typ 1



13,3" Fanless Touch Panel-PC Typ 2

LCD Size	10,1"		
Active Area	-		
Pixel Pitch	-		
Aspect Ratio	-		
Display Backlight	LED Backlight	-	-
Display Resolution	WXGA (1.280x800)	-	-
Display Colors	-		
Brightness	1.000cd/m ²		
Contrast Ratio	800:1		
Response Time	-		
Viewing Angle	170° x 170° (H x V)		
Anti Reflection Glass	-		
Strengthened Glass	-		
Sunlight Readable	x		
Gapless Optical Bonding	-		
MTBF	-		
TouchScreen	Projected capacitive		
Keypad	F1 ~ F10 programmable function, LCD back light on/off, Volume and brightness control (+/-)		
Cooling System	Fanless		
Mounting System	VESA 75 VESA	-	-
CPU	NXP i.MX 8M Plus processor 1.6 GHz (Quad Arm® Cortex®-A53)		
FSB Frequency	-		
Chipset	-		
Watchdog Timer	-		
Basic Equipment	4GB		
Maximum Equipment	8GB		
SDRAM	-		
DIMM / MemorySocket	DDR3L 1.600MHz SO-DIMM		
Compact Flash	-		
SD	-		
HD SATA	1x 2.5" SATA SSD bay		
Internal Storage	-		
Graphic Interface	-	-	-
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		
CAN	2x Isolated CAN 2.0B via external (21-pin) multi port cable		
Interface USB	1x (type A) USB 2.0	-	-
Interface LAN	1x via (22-pin) connector 10/100/1000 BASE-T, Optional via WLAN antenna WLAN	-	-
Interface IO	2x via external (22-pin) multi port cable GPIO	-	-
Mini PCIe	4x		
Camera	-		
Bluetooth	Optional		
PS/2	-		
Audio	1x Line-out, 1x Mic-in via external (21-pin) multi port cable		
Speakers	2x Built-in 2W speakers		
Headphone	-		
RFID	1x		
SIM Card	2x micro SIM slot		
GPS	1x U-blox LISA-U200 (optional)		
Mobile Communication 2G	Optional GSM+GPRS	-	-
Mobile Communication 3G	Optional HSDPA+UMTS	-	-
PCIe	4x Mini PCIe		
Operating System	Windows 10 / Linux		
Operating System Support	-		
Input Voltage Nominal	-		
Input Voltage Min/Max	9 to 60VDC		
Output Voltage Nominal	-		
Output Voltage Min/Max	-		
Input Current	-		
Operating Temperature	-20°C to 70°C		
Storage Temperature	-30°C to 80°C		
Relative Humidity	10% to 90%, non-condensing		
Protection	Complete IP65 housing, Shock + Vibration, Reverse-, over voltage- and under voltage-protection		
Certification	CE, e13 (Vehicle), Class B FCC	-	-
Dimensions	289,98 x 229,97 x 68,7 mm (W x H x D)		
Weight	3,5 Kg		
Material	Die-cast aluminum		
Typ. Application	Automotive	-	-

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Vehicle Mount Computer 320-AC0



13,3" Fanless Touch Panel-PC Typ 1



13,3" Fanless Touch Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPA1012
VMC 320-AC0, 10.1" w/ PCT, AG, 1.000cd/m²,
IK08, IP65 Front, NXP i.MX 8M Plus, Quad
ArmCortex-A53, 3GB LPDDR4 SDRAM

Artikel-Nr. PKPX8730
13,3" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 300cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8630
13,3" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 350cd/m², 2x USB, 1x LAN, 1x COM,
Android

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15" Fanless Touch Panel-PC Typ 1



15" Fanless Touch Panel-PC Typ 2



15,6" Fanless Touch Panel-PC Typ 1

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
FSB Frequency			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
PS/2			
Audio			
Speakers			
Headphone			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-



15" Fanless Touch Panel-PC Typ 1



15" Fanless Touch Panel-PC Typ 2



15,6" Fanless Touch Panel-PC Typ 1

Bestellinformation

Artikel-Nr. PKPX8740

15" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 420cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8640

15" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 420cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. PKPX8750

15,6" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 220cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

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15,6" Fanless Touch Panel-PC Typ 2



17" Fanless Touch Panel-PC Typ 1



17" Fanless Touch Panel-PC Typ 2

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
FSB Frequency			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
PS/2			
Audio			
Speakers			
Headphone			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-

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15,6" Fanless Touch Panel-PC Typ 2



17" Fanless Touch Panel-PC Typ 1



17" Fanless Touch Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPX8650

15,6" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 220cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. PKPX8760

17" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 250cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8660

17" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 250cd/m², 2x USB, 1x LAN, 1x COM,
Android

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19" Fanless Touch Panel-PC Typ 1



19" Fanless Touch Panel-PC Typ 2



21,5" Fanless Touch Panel-PC Typ 1

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
FSB Frequency			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
PS/2			
Audio			
Speakers			
Headphone			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-



19" Fanless Touch Panel-PC Typ 1



19" Fanless Touch Panel-PC Typ 2



21,5" Fanless Touch Panel-PC Typ 1

Bestellinformation

Artikel-Nr. PKPX8770
19" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 250cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8670
19" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 250cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. PKPX8780
21,5" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 250cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

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21,5" Fanless Touch Panel-PC Typ 2



23,8" Fanless Touch Panel-PC Typ 1



23,8" Fanless Touch Panel-PC Typ 2

LCD Size			
Active Area			
Pixel Pitch			
Aspect Ratio			
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			
Brightness			
Contrast Ratio			
Response Time			
Viewing Angle			
Anti Reflection Glass			
Strengthened Glass			
Sunlight Readable			
Gapless Optical Bonding			
MTBF			
TouchScreen			
Keypad			
Cooling System			
Mounting System	-	-	-
CPU			
FSB Frequency			
Chipset			
Watchdog Timer			
Basic Equipment			
Maximum Equipment			
SDRAM			
DIMM / MemorySocket			
Compact Flash			
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			
Camera			
Bluetooth			
PS/2			
Audio			
Speakers			
Headphone			
RFID			
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Output Voltage Nominal			
Output Voltage Min/Max			
Input Current			
Operating Temperature			
Storage Temperature			
Relative Humidity			
Protection			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-



21,5" Fanless Touch Panel-PC Typ 2



23,8" Fanless Touch Panel-PC Typ 1



23,8" Fanless Touch Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPX8680
21,5" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 250cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. PKPX8790
23,8" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 500cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8690
23,8" Fanless Touch Panel-PC w/PCT, IP65, 2GB
DDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 500cd/m², 2x USB, 1x LAN, 1x COM,
Android

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27" Fanless Touch Panel-PC Typ 1



27" Fanless Touch Panel-PC Typ 2



Musterartikel

LCD Size			-
Active Area			-
Pixel Pitch			-
Aspect Ratio			-
Display Backlight	-	-	-
Display Resolution	-	-	-
Display Colors			-
Brightness			-
Contrast Ratio			-
Response Time			-
Viewing Angle			-
Anti Reflection Glass			-
Strengthened Glass			-
Sunlight Readable			-
Gapless Optical Bonding			-
MTBF			-
TouchScreen			-
Keypad			-
Cooling System			-
Mounting System	-	-	-
CPU			-
FSB Frequency			-
Chipset			-
Watchdog Timer			-
Basic Equipment			-
Maximum Equipment			-
SDRAM			-
DIMM / MemorySocket			-
Compact Flash			-
SD			-
HD SATA			-
Internal Storage			-
Graphic Interface	-	-	-
Interface COM			-
CAN			-
Interface USB	-	-	-
Interface LAN	-	-	-
Interface IO	-	-	-
Mini PCIe			-
Camera			-
Bluetooth			-
PS/2			-
Audio			-
Speakers			-
Headphone			-
RFID			-
SIM Card			-
GPS			-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			-
Operating System			-
Operating System Support			-
Input Voltage Nominal			-
Input Voltage Min/Max			-
Output Voltage Nominal			-
Output Voltage Min/Max			-
Input Current			-
Operating Temperature			-
Storage Temperature			-
Relative Humidity			-
Protection			-
Certification	-	-	-
Dimensions			-
Weight			-
Material			-
Typ. Application	-	-	-



27" Fanless Touch Panel-PC Typ 1



27" Fanless Touch Panel-PC Typ 2



Musterartikel

Bestellinformation

Artikel-Nr. PKPX8800

27" Fanless Touch Panel-PC w/PCT, IP65, 4GB
DDR4, 64GB eMMC, Amlogic A311D Cortex-A73
+ Cortex-A53, 300cd/m², 1x HDMI, 4x USB, 1x
LAN, 1x RS232, Android

Artikel-Nr. PKPX8691

27" Fanless Touch Panel-PC w/PCT, IP65, 2 GB
LPDDR4, 64GB eMMC, Amlogic S905D3 Cortex
A-53, 300cd/m², 2x USB, 1x LAN, 1x COM,
Android

Artikel-Nr. Artikelnr.

Bezeichnung 1, Bezeichnung 2

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5" Open Frame HMI Panel-PC Typ 1



5" Open Frame HMI Panel-PC Typ 2



5" Open Frame HMI Panel-PC Type 4

LCD Size	5"	5"	5"
Active Area	-	-	108 x 64,8 mm (H x V)
Pixel Pitch	-	-	-
Aspect Ratio	-	-	5:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WVGA (800x480)	WVGA (800x480)	WVGA (800x480)
Display Colors	16,7 M	16,7 M	16,7 M
Brightness	250 cd/m²	850 cd/m²	350 cd/m²
Contrast Ratio	-	600:1	500:1
Response Time	-	25 ms	-
Viewing Angle	-	150° / 130° (H / V)	140° / 120° (H / V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	7H hardness	7H hardness
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	20.000 hours	50.000 hours	15.000 hours
TouchScreen	4-wire resistive TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	High-performance ARM Cortex A9 CPU @ 1Ghz Single Core	High-performance NXP iMX6 ARM Cortex A9 CPU @ 1Ghz, Single Core	ARM Cortex A35 Quad Core CPU up to 1.3Ghz
FSB Frequency	-	-	-
Chipset	-	-	Rockchip PX30K
Watchdog Timer	-	x	x
Basic Equipment	1GB	1GB	2GB
Maximum Equipment	4GB	4GB	-
SDRAM	DDR3	DDR3	LPDDR3
DIMM / MemorySocket	-	-	-
Compact Flash	eMMC	eMMC	8GB eMMC
SD	1x Micro SD card slot	1x Micro SD card slot	-
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x HDMI, (require an expansion board) LCD-LVDS	1x HDMI	-
Interface COM	1x 1x RS485, 1x 2x RS232 (one as console)	1x 1x RS232, 1x 1x RS485	2x RS232 (or RS485)
CAN	(require an expansion board)	(require an expansion board)	-
Interface USB	3x USB 2.0	5x USB 2.0	5x (+ 1x USB 2.0 OTG) USB 2.0
Interface LAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN	1x (+ 1x LAN2 optional) 10/100 BASE-T, optional WLAN, optional PoE
Interface IO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO GPIO	8-bit GPIO GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	-	Optional	Optional
PS/2	-	-	-
Audio	1x Line In, 1x MIC In	1x Line In, 1x MIC In	1x MIC In
Speakers	-	2x	2x
Headphone	1x	1x	1x
RFID	-	-	-
SIM Card	-	-	1x SIM socket
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional UMTS	Optional UMTS	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 4.4 / 6.0 (and later), Linux 4.x / Yocto 1.6 (and later)	Android 9.x / Ubuntu 18
Input Voltage Nominal	+5VDC @ 2A	+5VDC	12VDC
Input Voltage Min/Max	-	-	9 to 36VDC IN (optional)
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	0°C to 50°C	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-	-30°C to 80°C	-30°C to 80°C
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	92 x 139 x 29 mm	162 x 94 x 36 mm	141 x 110 x 42 mm
Weight	240 g	310 g	Tbd.
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage



5" Open Frame HMI Panel-PC Typ 1



5" Open Frame HMI Panel-PC Typ 2



5" Open Frame HMI Panel-PC Type 4

Bestellinformation

Artikel-Nr. PKPX4440
5" Open Frame HMI Panel-PC, 800x480,
250cd/m², Resistive TouchScreen, iMX 6S, 1GHz
SingleCore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4441
5" Open Frame HMI Panel-PC, 800x480,
250cd/m², Resistive TouchScreen, iMX 6S, 1GHz
SingleCore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4444
5" Open Frame HMI Panel-PC, 800x480,
250cd/m², Resistive TouchScreen, iMX 6S, 1GHz
SingleCore, 1GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4445
5" Open Frame HMI Panel-PC Typ 2, 800x480,
850cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4446
5" Open Frame HMI Panel-PC Typ 2, 800x480,
850cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4470
5" Open Frame HMI Panel-PC Type 4, 800x480,
350cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 1x
LAN, Ubuntu

Artikel-Nr. PKPX4471
5" Open Frame HMI Panel-PC Type 4, 800x480,
350cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 1x
LAN, Android

Artikel-Nr. PKPX4472
5" Open Frame HMI Panel-PC Type 4, 800x480,
350cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 2x
LAN, Ubuntu

Artikel-Nr. PKPX4473
5" Open Frame HMI Panel-PC Type 4, 800x480,
350cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 2x
LAN, Android

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7" Open Frame HMI Panel-PC Typ 5



7" Open Frame HMI Panel-PC Typ 1



7" Open Frame HMI Panel-PC Typ 2

LCD Size	7"	7"	7"
Active Area	154x86 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	WVGA (800x480)	WSVGA (1.024x600)
Display Colors	-	262K	16.7M
Brightness	1.300 cd/m ²	300 cd/m ²	800 cd/m ²
Contrast Ratio	Tbd.	-	560:1
Response Time	-	-	-
Viewing Angle	170°C/170°C	140°, 130° (H, V)	150°, 145° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	x	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	70.000 h	20.000 hours	50.000 hours
TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	Rockchip PX30K (64-bit Quad-core ARM Cortex-A35 @ 1.6Ghz)	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer	High-performance ARM Cortex A9 CPU @ 1Ghz Single- / Dual- / Quad-Core computer
FSB Frequency	-	-	-
Chipset	Rockchip PX30K	-	-
Watchdog Timer	x	-	-
Basic Equipment	2GB	1 GB (Dual) or 2 GB (Quad)	1 GB (Single/Dual) or 2 GB (Quad)
Maximum Equipment	-	4GB	4GB
SDRAM	LPDDR3	DDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	8GB eMMC flash	eMMC	eMMC
SD	1x microSD card slot	1x Micro SD card slot	1x Micro SD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x DisplayPort	1x HDMI	-
Interface COM	2x RS232 (or RS485)	1x 1x RS232 (as console), 1x 1x RS485	1x 1x RS232 , 1x 1x RS485
CAN	-	Optional	Optional
Interface USB	5x USB2.0 Host, 1x USB2.0 OTG USB 2.0	3x USB 2.0	3x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T, optional WLAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	8-bit GPIO GPIO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	Optional	-	-
PS/2	-	-	-
Audio	1x MIC In + 1x Line in	1x Line In, 1x MIC In	1x Line In, 1x MIC In
Speakers	2x	2x	2x
Headphone	1x	1x	1x
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	Optional UMTS	Optional UMTS
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android / Ubuntu / Debian	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	12VDC	+12VDC @ 2A	-
Input Voltage Min/Max	option external 9V-36V converter board	-	+9 to +36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	0°C to 70°C	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-20°C to 70°C	-	-
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	183x136x54 mm	126 x 182 x 26 mm	125,5 x 182 x 28 mm
Weight	Tbd.	375 g	547,6 g
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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7" Open Frame HMI Panel-PC Typ 5



7" Open Frame HMI Panel-PC Typ 1



7" Open Frame HMI Panel-PC Typ 2

Bestellinformation

Artikel-Nr. PKPX4485
7" Open Frame HMI Panel-PC Typ
5, WSVGA, 1.300cd/m², PCT, Cover Glass, PX30K
QuadC., 2GB LPDDR3, 8GB eMMC, 1xLAN, Wifi,
BT, Ubuntu

Artikel-Nr. PKPX4486
7" Open Frame HMI Panel-PC Typ
5, WSVGA, 1.300cd/m², PCT, Cover Glass, PX30K
QuadC., 2GB LPDDR3, 8GB eMMC, 1xLAN, Wifi,
BT, Android

Artikel-Nr. PKPX4487
7" Open Frame HMI Panel-PC Typ
5, WSVGA, 1.300cd/m², PCT, PX30K QuadC., 2GB
LPDDR3, 8GB eMMC, 1xLAN, Ubuntu

Artikel-Nr. PKPX4488
7" Open Frame HMI Panel-PC Typ
5, WSVGA, 1.300cd/m², PCT, PX30K QuadC., 2GB
LPDDR3, 8GB eMMC, 1xLAN, Android

Artikel-Nr. PKPX4402
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6D, 1GHz
DualCore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4402-1
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6D, 1GHz
DualCore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4402-2
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6D, 1GHz
DualCore, 1GB DDR3, 4GB NAND, Ubuntu, CAN,
Overvoltage Protection

Artikel-Nr. PKPX4402-3
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6D, 1GHz
DualCore, 1GB DDR3, 4GB NAND, Android, CAN,
Overvoltage Protection

Artikel-Nr. PKPX4404
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4404-1
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4404-2
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Ubuntu, CAN,
Overvoltage Protection

Artikel-Nr. PKPX4404-3
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Android,
CAN, Overvoltage Protection

Artikel-Nr. PKPX4404-4
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4404-5
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz
QuadCore, 2GB DDR3, 4GB NAND, Yocto, CAN,
Overvoltage Protection

Artikel-Nr. PKPX4402-4
7" Open Frame HMI Panel-PC, 800x480,
300cd/m², Resistive TouchScreen, iMX 6D, 1GHz
DualCore, 1GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4450
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4450-1
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4451
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4451-1
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4452
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4453
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4454
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4455
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4456
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4457
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4458
7" Open Frame HMI Panel-PC, 1.024x600,
800cd/m², Projected Capacitive TouchScreen, iMX
6S, 1GHz SingleCore, 1GB DDR3, 4GB NAND,
Yocto

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7" Open Frame HMI Panel-PC Typ 3



7" Open Frame HMI Panel-PC Type 4



10,1" Open Frame HMI Panel-PC Typ 1

LCD Size	7"	7"	10,1"
Active Area	-	154,08 x 85,92 mm (H x V)	-
Pixel Pitch	-	-	-
Aspect Ratio	-	5:3	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	WVGA (800x480)	WXGA (1.280x800)
Display Colors	16,7M	16,7 M	16,7M
Brightness	1.300 cd/m ²	250 cd/m ²	300 cd/m ²
Contrast Ratio	600:1	500:1	-
Response Time	25 ms	-	-
Viewing Angle	170°, 170° (H, V)	140° / 120° (H / V)	170°, 170° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	7H hardness	6H hardness	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	70.000 hours	10.000 hours	15.000 hours
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	High-performance NXP iMX6 ARM Cortex A9 processor @ 1Ghz, Quad / Dual / Single Core	ARM Cortex A35 Quad Core CPU up to 1.3Ghz	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer
FSB Frequency	-	-	-
Chipset	-	Rockchip PX30K	-
Watchdog Timer	x	x	-
Basic Equipment	1GB / 2GB	2GB	1 GB (Dual) or 2 GB (Quad)
Maximum Equipment	4GB	-	4GB
SDRAM	DDR3	LPDDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	eMMC	8GB eMMC	eMMC
SD	1x microSD card slot	-	1x Micro SD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x HDMI	-	1x HDMI
Interface COM	1x 1x RS232, 1x 1x RS485	2x RS232 (or RS485)	1x 1x RS485, 1x 2x RS232 (one as console)
CAN	2x optional	-	Optional
Interface USB	5x USB 2.0	5x (+ 1x USB 2.0 OTG) USB 2.0	3x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T, Optional WLAN	1x (+ 1x LAN2 optional) 10/100 BASE-T, optional WLAN, optional PoE	1x 10/100/1000 BASE-T
Interface IO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO GPIO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	Optional	Optional	-
PS/2	-	-	-
Audio	1x Line In, 1x MIC In	1x MIC In	1x Line In, 1x MIC In
Speakers	2x	2x	2x
Headphone	1x	1x	1x
RFID	-	-	-
SIM Card	-	1x SIM socket	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional UMTS	-	Optional UMTS
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 4.4 / 6.0 (and later), Linux 4.x / Yocto 1.6 (and later)	Android 9.x / Ubuntu 18	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	-	12VDC	+12VDC @ 2A
Input Voltage Min/Max	+9 to +36VDC	9 to 36VDC IN (optional)	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	-20°C to 70°C	0°C to 50°C
Storage Temperature	-30°C to 80°C	-30°C to 80°C	-
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	207 x 117 x 38 mm	167 x 126 x 45 mm	183 x 268 x 33 mm
Weight	515 g	Tbd.	750 g
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage



7" Open Frame HMI Panel-PC Typ 3



7" Open Frame HMI Panel-PC Type 4



10,1" Open Frame HMI Panel-PC Typ 1

Bestellinformation

Artikel-Nr. PKPX4460

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6Q, 1GHz, QuadCore, 2GB DDR3, 4GB
NAND, Android

Artikel-Nr. PKPX4460-1

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6Q, 1GHz, QuadCore, 2GB DDR3, 4GB
NAND, Android, 2x CAN, OverVoltage protection

Artikel-Nr. PKPX4461

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6Q, 1GHz, QuadCore, 2GB DDR3, 4GB
NAND, Yocto

Artikel-Nr. PKPX4461-1

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6Q, 1GHz, QuadCore, 2GB DDR3, 4GB
NAND, Yocto, 2x CAN, OverVoltage protection

Artikel-Nr. PKPX4462

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6D, 1GHz, DualCore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4462-1

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6D, 1GHz, DualCore, 1GB DDR3, 4GB NAND,
Android, 2x CAN, OverVoltage protection

Artikel-Nr. PKPX4463

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6D, 1GHz, DualCore, 1GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4463-1

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6D, 1GHz, DualCore, 1GB DDR3, 4GB NAND,
Yocto, 2x CAN, OverVoltage protection

Artikel-Nr. PKPX4464

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6S, 1GHz, SingleCore, 1GB DDR3, 4GB
NAND, Android

Artikel-Nr. PKPX4464-1

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6S, 1GHz, SingleCore, 1GB DDR3, 4GB
NAND, Android, 2x CAN, OverVoltage protection

Artikel-Nr. PKPX4465

7" Open Frame HMI Panel-PC Typ 3, 1.024x600,
1.300cd/m², Projected Capacitive TouchScreen,
iMX 6S, 1GHz, SingleCore, 1GB DDR3, 4GB
NAND, Yocto

Artikel-Nr. PKPX4474

7" Open Frame HMI Panel-PC Type 4, 800x480,
250cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 1x
LAN, Ubuntu

Artikel-Nr. PKPX4475

7" Open Frame HMI Panel-PC Type 4, 800x480,
250cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 1x
LAN, Android

Artikel-Nr. PKPX4476

7" Open Frame HMI Panel-PC Type 4, 800x480,
250cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 2x
LAN, Ubuntu

Artikel-Nr. PKPX4477

7" Open Frame HMI Panel-PC Type 4, 800x480,
250cd/m², Projected Capacitive TouchScreen,
PX30K QuadCore, 2GB LPDDR3, 8GB eMMC, 2x
LAN, Android

Artikel-Nr. PKPX4400

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4400-1

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4400-4

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4400-5

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4400-6

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4406

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android

Artikel-Nr. PKPX4406-1

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu

Artikel-Nr. PKPX4406-2

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Yocto

Artikel-Nr. PKPX4406-3

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4406-4

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4406-5

10,1" Open Frame HMI Panel-PC, 1.280x800
300cd/m², Projected Capacitive TouchScreen, iMX
6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND,
Yocto, CAN, Overvoltage Protection

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10,1" Open Frame HMI Panel-PC Typ 2

10,1" Open Frame HMI Panel-PC Typ 3

10,1" Open Frame HMI Panel-PC Typ 4

LCD Size	10,1"	10,1"	10,1"
Active Area	-	-	154,08 x 85,92 mm (H x V)
Pixel Pitch	-	-	-
Aspect Ratio	-	-	5:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WXGA (1.280x800)	WSVGA (1.024x600)
Display Colors	16,7M	16,7M	16,7 M
Brightness	500 cd/m²	1.000 cd/m²	400 cd/m² (optional 1.000 cd/m²)
Contrast Ratio	800:1	800:1	800:1
Response Time	-	25 ms	-
Viewing Angle	160°, 160° (H, V)	170°, 170° (H, V)	170° / 170° (H / V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	7H hardness	6H hardness
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	50.000 hours	70.000 hours	30.000 hours
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	High-performance ARM Cortex A9 CPU @ 1Ghz Single-Core computer	High-performance NXP iMX6 ARM Cortex A9 processor @ 1Ghz, Quad / Dual / Single Core	ARM Cortex A35 Quad Core CPU up to 1.3Ghz
FSB Frequency	-	-	-
Chipset	-	-	Rockchip PX30K
Watchdog Timer	-	x	x
Basic Equipment	1GB	1GB / 2GB	2GB
Maximum Equipment	4GB	4GB	-
SDRAM	DDR3	DDR3	LPDDR3
DIMM / MemorySocket	-	-	-
Compact Flash	eMMC	eMMC	8GB eMMC
SD	1x Micro SD card slot	1x microSD card slot	-
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x HDMI	1x HDMI	-
Interface COM	1x 1x RS232, 1x 1x RS485	1x 1x RS232, 1x 1x RS485	2x RS232 (or RS485)
CAN	Optional	2x optional	-
Interface USB	3x USB 2.0	5x USB 2.0	5x (+ 1x USB 2.0 OTG) USB 2.0
Interface LAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN	1x (+ 1x LAN2 optional) 10/100 BASE-T, optional WLAN, optional PoE
Interface IO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	-	Optional	Optional
PS/2	-	-	-
Audio	1x Line In, 1x MIC In	1x Line In, 1x MIC In	1x MIC In
Speakers	2x	2x	2x
Headphone	1x	1x	1x
RFID	-	-	-
SIM Card	-	-	1x SIM socket
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional UMTS	Optional UMTS	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 4.4 / 6.x, Linux 4.x / Yocto 1.6 (and later)	Android 9.x / Ubuntu 18
Input Voltage Nominal	-	-	12VDC
Input Voltage Min/Max	+9 to +36VDC	+9 to +36VDC	9 to 36VDC IN (optional)
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-	-30°C to 80°C	-30°C to 80°C
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	183 x 268 x 38 mm	270 x 164 x 38 mm	237 x 167 x 50 mm
Weight	1,0832 Kg	820 g	Tbd.
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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10,1" Open Frame HMI Panel-PC Typ 2



10,1" Open Frame HMI Panel-PC Typ 3



10,1" Open Frame HMI Panel-PC Type 4

Bestellinformation

Artikel-Nr. PKPX4407
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4407-1
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage
Protection

Artikel-Nr. PKPX4408
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4408-1
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Android, CAN, Overvoltage
Protection

Artikel-Nr. PKPX4409
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4409-1
10,1" Open Frame HMI Panel-PC Typ 2,
1.280x800, 500cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz SingleCore, 1GB
DDR3, 4GB NAND, Yocto, CAN, Overvoltage
Protection

Artikel-Nr. PKPX4410
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6Q, 1GHz, QuadCore, 2GB
DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4410-1
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6Q, 1GHz, QuadCore, 2GB
DDR3, 4GB NAND, Android, 2x CAN, OverVoltage
protection

Artikel-Nr. PKPX4411
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6Q, 1GHz, QuadCore, 2GB
DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4411-1
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6Q, 1GHz, QuadCore, 2GB
DDR3, 4GB NAND, Yocto, 2x CAN, OverVoltage
protection

Artikel-Nr. PKPX4412
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6D, 1GHz, DualCore, 1GB
DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4412-1
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6D, 1GHz, DualCore, 1GB
DDR3, 4GB NAND, Android, 2x CAN, OverVoltage
protection

Artikel-Nr. PKPX4413
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6D, 1GHz, DualCore, 1GB
DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4413-1
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6D, 1GHz, DualCore, 1GB
DDR3, 4GB NAND, Yocto, 2x CAN, OverVoltage
protection

Artikel-Nr. PKPX4414
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz, SingleCore, 1GB
DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4414-1
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz, SingleCore, 1GB
DDR3, 4GB NAND, Android, 2x CAN, OverVoltage
protection

Artikel-Nr. PKPX4415
10,1" Open Frame HMI Panel-PC Typ 3,
1.280x800, 1.000cd/m², Projected Capacitive
TouchScreen, iMX 6S, 1GHz, SingleCore, 1GB
DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4478
10,1" Open Frame HMI Panel-PC Type 4,
1.024x600, 400cd/m², Projected Capacitive
TouchScreen, PX30K QuadCore, 2GB LPDDR3,
8GB eMMC, 1x LAN, Ubuntu

Artikel-Nr. PKPX4479
10,1" Open Frame HMI Panel-PC Type 4,
1.024x600, 400cd/m², Projected Capacitive
TouchScreen, PX30K QuadCore, 2GB LPDDR3,
8GB eMMC, 1x LAN, Android

Artikel-Nr. PKPX4480
10,1" Open Frame HMI Panel-PC Type 4,
1.024x600, 400cd/m², Projected Capacitive
TouchScreen, PX30K QuadCore, 2GB LPDDR3,
8GB eMMC, 2x LAN, Ubuntu

Artikel-Nr. PKPX4480-1
10,1" Open Frame HMI Panel-PC Type 4,
1.024x600, 1.000cd/m², Projected Capacitive
TouchScreen, PX30K QuadCore, 2GB LPDDR3,
8GB eMMC, 2x LAN, Ubuntu

Artikel-Nr. PKPX4481
10,1" Open Frame HMI Panel-PC Type 4,
1.024x600, 400cd/m², Projected Capacitive
TouchScreen, PX30K QuadCore, 2GB LPDDR3,
8GB eMMC, 2x LAN, Android

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11,6" Open Frame HMI Panel-PC Type 1

15" Open Frame HMI Panel-PC Typ 1

15,6" Open Frame HMI Panel-PC Kit
LCD-TFT FHD

LCD Size	11,6"	15"	15,6"
Active Area	-	-	344,16 x 193,59 mm
Pixel Pitch	-	-	0,17925 (W) x 0,17925 (H) mm
Aspect Ratio	16:9	-	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	XGA (1.024x768)	1080p (1.920x1.080)
Display Colors	262K	16,7M	16,7M
Brightness	250 cd/m²	300 cd/m²	1.300 cd/m²
Contrast Ratio	Tbd.	-	1.000:1
Response Time	-	-	-
Viewing Angle	Tbd.	140°, 120° (H, V)	Free direction
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	x
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	30.000 hours	-
TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	2x ARM Cortex A72 & 4x ARM Cortex A53 processor, 2GHz	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer	4x Cortex-A76 + 4x A55 @2.4Ghz Rockchip 3588 Quad Core
FSB Frequency	-	-	-
Chipset	Rockchip RK3399	-	ARM Mali G610 MP4
Watchdog Timer	x	-	-
Basic Equipment	2GB	1GB (Dual) or 2GB (Quad)	4GB
Maximum Equipment	-	4GB	16GB
SDRAM	DDR3	DDR3	LPDDR4X
DIMM / MemorySocket	-	-	-
Compact Flash	8GB eMMC	eMMC	32GB Flash eMMC (up to 128GB)
SD	1x microSD card slot	1x Micro SD card slot	1x microSD
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x DisplayPort	1x HDMI	VGA/CRT, 2x HDMI, 2x DisplayPort
Interface COM	4x 232/422/485 (optional)	1x 1x RS232 (as console), 1x 1x RS485	4x RS232 (or RS485)
CAN	-	Optional	2x
Interface USB	2x USB 2.0, 2x (+ 1x USB 3.0 OTG) USB 3.0	3x USB 2.0	2x host pin header USB 2.0, 2x Type-A host, 1x OTG Type C USB 3.0
Interface LAN	1x 10/100/1000 BASE-T, optional WLAN	1x 10/100/1000 BASE-T	2x 2,5G - 5G BASE-T, WiFi 6 (802.11ax) WLAN
Interface IO	8-bit GPIO GPIO	8-bit GPIO (optional 16-bit) GPIO	-
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	Optional	-	BT 5.0 (optional)
PS/2	-	-	-
Audio	1x MIC In + 1x Line in	1x Line In, 1x MIC In	1x MIC + 1x Line in
Speakers	2x	2x	2x
Headphone	1x	1x	1x
RFID	-	-	-
SIM Card	-	-	1x M.2 3042/3052 B-key socket for LTE/5G + SIM slot
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	Optional UMTS	-
PCIe	-	-	M.2 3042 M-key socket for PCIe SSD
Operating System	-	-	-
Operating System Support	Android / Ubuntu / Debian	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android/Debian/Yocto
Input Voltage Nominal	12VDC / 24VDC	+12VDC @ 2A	9-28VDC (Recommended 12VDC/24VDC nominal)
Input Voltage Min/Max	-	-	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	Tbd.	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-	-	-30°C bis +80 °C
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	-
Dimensions	Tbd.	tbd.	150 x 102 mm
Weight	Tbd.	tbd.	Tbd.
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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11,6" Open Frame HMI Panel-PC Type 1

15" Open Frame HMI Panel-PC Typ 1

15,6" Open Frame HMI Panel-PC Kit LCD-TFT FHD

Bestellinformation

Artikel-Nr. PKPX4482

11,6" Open Frame HMI Panel-PC, 1.366x768, 250cd/m², Projected Capacitive TouchScreen, 2x A72+4x A53, 2GHz, 4GB DDR3, 8GB eMMC, 1x LAN, Debian

Artikel-Nr. PKPX4483

11,6" Open Frame HMI Panel-PC, 1.366x768, 250cd/m², Projected Capacitive TouchScreen, 2x A72+4x A53, 2GHz, 4GB DDR3, 8GB eMMC, 1x LAN, Ubuntu

Artikel-Nr. PKPX4484

11,6" Open Frame HMI Panel-PC, 1.366x768, 250cd/m², Projected Capacitive TouchScreen, 2x A72+4x A53, 2GHz, 4GB DDR3, 8GB eMMC, 1x LAN, Android

Artikel-Nr. DMXX1380

11,6" Open Frame Monitor - 2nd LCD option for PKPX4482-4484, 1.366x768, 250cd/m², HDMI, w/o Touch, w/ sheet metal

Artikel-Nr. PKPX4420

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4420-1

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4421

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4421-1

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4422

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu

Artikel-Nr. PKPX4422-1

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection

Artikel-Nr. PKPX4423

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android

Artikel-Nr. PKPX4423-1

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection

Artikel-Nr. PKPX4424

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Yocto

Artikel-Nr. PKPX4424-1

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Yocto, CAN, Overvoltage Protection

Artikel-Nr. PKPX4425

15" Open Frame HMI Panel-PC, 1.024x768, 300cd/m², Resistive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Yocto

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21,5" Open Frame HMI Panel-PC Typ 1

LCD Size	21,5"
Active Area	-
Pixel Pitch	-
Aspect Ratio	-
Display Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)
Display Colors	16,7M
Brightness	300 cd/m²
Contrast Ratio	-
Response Time	-
Viewing Angle	120°, 100° (H, V)
Anti Reflection Glass	-
Strengthened Glass	-
Sunlight Readable	-
Gapless Optical Bonding	-
MTBF	30.000 hours
TouchScreen	Infrared (IR) TouchScreen
Keypad	-
Cooling System	-
Mounting System	Wall Mount
CPU	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer
FSB Frequency	-
Chipset	-
Watchdog Timer	-
Basic Equipment	1GB (Dual) or 2GB (Quad)
Maximum Equipment	4GB
SDRAM	DDR3
DIMM / MemorySocket	-
Compact Flash	eMMC
SD	1x Micro SD card slot
HD SATA	-
Internal Storage	-
Graphic Interface	1x HDMI
Interface COM	1x 1x RS232 (as console), 1x 1x RS485
CAN	Optional
Interface USB	3x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T
Interface IO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-
Camera	-
Bluetooth	-
PS/2	-
Audio	1x Line In, 1x MIC In
Speakers	2x
Headphone	1x
RFID	-
SIM Card	-
GPS	-
Mobile Communication 2G	-
Mobile Communication 3G	Optional UMTS
PCIe	-
Operating System	-
Operating System Support	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	+12VDC @ 2A
Input Voltage Min/Max	-
Output Voltage Nominal	-
Output Voltage Min/Max	-
Input Current	-
Operating Temperature	0°C to 50°C
Storage Temperature	-
Relative Humidity	-
Protection	-
Certification	CE, FCC
Dimensions	tbd.
Weight	tbd.
Material	-
Typ. Application	Industrial, Digital Signage

**21,5" Open Frame HMI Panel-PC Typ 1**

Bestellinformation

Artikel-Nr. PKPX4430 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Ubuntu
Artikel-Nr. PKPX4430-1 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection
Artikel-Nr. PKPX4431 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Android
Artikel-Nr. PKPX4431-1 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection
Artikel-Nr. PKPX4432 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu
Artikel-Nr. PKPX4432-1 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu, CAN, Overvoltage Protection
Artikel-Nr. PKPX4433 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android
Artikel-Nr. PKPX4433-1 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android, CAN, Overvoltage Protection
Artikel-Nr. PKPX4434 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Yocto
Artikel-Nr. PKPX4434-1 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Yocto, CAN, Overvoltage Protection
Artikel-Nr. PKPX4435 21.5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Yocto

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**10,1" DeltaTough Panel-PC Rahmenlos
IEC-60945**

**15,6" DeltaTough Panel-PC Rahmenlos,
IP65, AG**

**15,6" DeltaTough Panel-PC Rahmenlos
Type 1**

LCD Size	10,1" LCD Touch Panel-PC	15,6" TFT LCD	15,6" TFT LCD
Active Area			
Pixel Pitch	-	-	-
Aspect Ratio			
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	16,7M	16,7M
Brightness	500 cd/m²	450 cd/m², optional 1.000cd/m²	450 cd/m², optional 1.000cd/m²
Contrast Ratio			
Response Time			
Viewing Angle	170° / 170° (H / V)	170° / 170° (H / V)	170° / 170° (H / V)
Anti Reflection Glass			x
Strengthened Glass			
Sunlight Readable	-	-	x
Gapless Optical Bonding			
MTBF	30.000 h	30.000 h	30.000 h
TouchScreen	Projected capacitive Touch	Projected capacitive Touch	Projected capacitive Touch
Keypad	Vol+, Vol-, Up, Down, Exit/Enter		
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA 100 VESA	75 x 75mm / 100 x 100mm M4 Screw Hole VESA	75 x 75mm / 100 x 100mm M4 Screw Hole VESA
CPU	RK3288 Processor, up to 1.6GHz	Intel® TigerLake-U Core i5/i7 Processors	Intel® TigerLake-U CoreTM i3/i5/i7 Processors
Chipset	QC Cortex-A17	(Intel® I219LM for iAMT 12.0, I225-IT Supports 2.5GbE LAN	Intel® I225-LM supports 2.5GbE LAN
Watchdog Timer	-	-	-
Basic Equipment	2GB	2GB	
Maximum Equipment	4GB	4GB	up to 64GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3	DDR3	2x DDR4 SO-DIMM
Compact Flash	16GB eMMC onBoard	1 x DDR4 SO-DIMM, up to 32GB	
SD	1x SD Card (SDHC Class10 compatible)		
HD SATA			
Internal Storage	3 x External Module Ports	1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket	1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket
Graphic Interface	1x Mini HDMI HDMI, LCD-LVDS	2x DisplayPort	1x HDMI, 1x DisplayPort
Interface COM			
CAN			
Interface USB	1x Micro-USB (OTG) USB, 2x USB 2.0 Type A USB 2.0	4x USB Ports USB	4x 3.2 Gen2 USB 3.0
Interface LAN	1x 10/100 BASE-T, WLAN	2 x RJ45 GbE LAN (Intel® I219LM for iAMT 12.0, I225-IT Supports 2.5GbE LAN 2,5G - 5G BASE-T	2 x RJ45 GbE LAN (Intel® I225-LM supports 2.5GbE LAN) 2,5G - 5G BASE-T
Interface IO	1x RJ45 GbE LAN, 2x RJ45 RS-232 Digital Input	4x RS-232/422/485 Digital Input	4x RS-232/422/485 Digital Input
Mini PCIe			
Camera	Optional, 2M pixel		
Bluetooth	-	-	-
Audio	1x Headset + MIC	1x	1x out
Speakers	Dual 2W Speaker		
RFID	-	-	-
SIM Card			
GPS			
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			
Operating System	Android, Ubuntu, Debian	Windows 10 IoT Enterprise LTSC	Windows 10 IoT Enterprise LTSC, Windows 11 IoT Enterprise, Linux Ubuntu, Linux Yocto
Operating System Support			
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	DC 12V Power Input, Optional POE Module	DC 9-36V Power Input	DC 12-24V Wide Range Power Input
Output Voltage Nominal			
Output Voltage Min/Max	-	-	-
Input Current			
Operating Temperature	-0°C to 40°C	-40 to 75 °C	-40 to 70 °C
Storage Temperature	-10 to +55 °C	-40 to 75 °C	-40 to 70 °C
Relative Humidity	0% - 85% at 40 °C, non- condensing	10-90% @40 °C, non-condensing	10-90% @40 °C, non-condensing
Protection		IP65 Front, IP66 Compliant, IEC-60068-2-64	IP65 Front, IP66 Compliant, IEC-60068-2-64
Certification	CE, FCC, Optional IEC 60945	Class A, Class B Compliant CE, MIL-STD-810H Shock+Vibration MIL-STD-810F, FCC, Optional IEC 60945, RoHs	Class A, Class B Compliant CE, MIL-STD-810H Shock+Vibration MIL-STD-810F, FCC, Optional IEC 60945, RoHs
Dimensions	252,1 x 177,8 x 24,5 mm (L x W x H)	387,4 x 242,4 x 84 mm (L x W x H)	387,4 x 242,4 x 84 mm (L x W x H)
Weight			
Material	ABS plastic Back casing	Aluminum Front Bezel and Metal Case	Aluminum Front Bezel and Metal Case
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

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**10,1" DeltaTough Panel-PC Rahmenlos
IEC-60945**



**15,6" DeltaTough Panel-PC Rahmenlos,
IP65, AG**



**15,6" DeltaTough Panel-PC Rahmenlos
Type 1**

Bestellinformation

Artikel-Nr. PKPT1001
10,1" DeltaTough Panel-PC Rahmenlos
IEC-60945, 500cd/m², RK3288QC
Cortex-A17,2GB DDR3,16GB
eMMC,RJ45,GbELAN

Artikel-Nr. PKPT4001
15,6" DeltaTough Panel-PC Rahmenlos, IP65, AG,
1.000cd/m², 11th Gen Intel Core
i5,9-55V,-40-70°C,USB,HDMI,DP

Artikel-Nr. PKPT4100
15,6" DeltaTough Panel-PC Rahmenlos Type 1,
IP65, AG, Intel Tigerlake-UP3Core
i3,450cd/m,12-24V,-40-70°C

Artikel-Nr. PKPT4101
15,6" DeltaTough Panel-PC Rahmenlos Type 2,
IP65, AG, Intel Tigerlake-UP3Core
i5,450cd/m,12-24V,-40-70°C

Artikel-Nr. PKPT4102
15,6" DeltaTough Panel-PC Rahmenlos Type 3,
IP65, AG, Intel Tigerlake-UP3Core
i7,450cd/m,12-24V,-40-70°C

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Musterartikel

18,5" DeltaTough Panel-PC Rahmenlos
Type 1

Musterartikel

LCD Size	-	18,5" TFT LCD	-
Active Area	-		-
Pixel Pitch	-	-	-
Aspect Ratio	-		-
Display Backlight	-	LED Backlight	-
Display Resolution	-	1080p (1.920x1.080)	-
Display Colors	-	16,7M	-
Brightness	-	350 cd/m², optional 1.000cd/m²	-
Contrast Ratio	-		-
Response Time	-		-
Viewing Angle	-	178° / 178° (H / V)	-
Anti Reflection Glass	-	x	-
Strengthened Glass	-		-
Sunlight Readable	-	x	-
Gapless Optical Bonding	-		-
MTBF	-	30.000 h	-
TouchScreen	-	Projected capacitive Touch	-
Keypad	-		-
Cooling System	-	Fanless	-
Mounting System	-	75 x 75mm / 100 x 100mm M4 Screw Hole VESA	-
CPU	-	Intel® TigerLake-U Core™ i3/i5/i7 Processors	-
Chipset	-	Intel® I225-LM supports 2.5GbE LAN	-
Watchdog Timer	-	-	-
Basic Equipment	-		-
Maximum Equipment	-	up to 64GB	-
SDRAM	-	-	-
DIMM / MemorySocket	-	2x DDR4 SO-DIMM	-
Compact Flash	-		-
SD	-		-
HD SATA	-		-
Internal Storage	-	1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket	-
Graphic Interface	-	1x HDMI, 1x DisplayPort	-
Interface COM	-		-
CAN	-		-
Interface USB	-	4x 3.2 Gen2 USB 3.0	-
Interface LAN	-	2 x RJ45 GbE LAN (Intel® I225-LM supports 2.5GbE LAN) 2,5G - 5G BASE-T	-
Interface IO	-	4x RS-232/422/485 Digital Input	-
Mini PCIe	-		-
Camera	-		-
Bluetooth	-	-	-
Audio	-	1x out	-
Speakers	-		-
RFID	-	-	-
SIM Card	-		-
GPS	-		-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-		-
Operating System	-	Windows 10 IoT Enterprise LTSC, Windows 11 IoT Enterprise, Linux Ubuntu, Linux Yocto	-
Operating System Support	-		-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	DC 12–24V Wide Range Power Input	-
Output Voltage Nominal	-		-
Output Voltage Min/Max	-	-	-
Input Current	-		-
Operating Temperature	-	-40 to 70 °C	-
Storage Temperature	-	-40 to 70 °C	-
Relative Humidity	-	10–90% @40 °C, non-condensing	-
Protection	-	IP65 Front, IP66 Compliant, IEC-60068-2-64	-
Certification	-	Class A, Class B Compliant CE, MIL-STD-810H Shock+Vibration MIL-STD-810F, FCC, Optional IEC 60945, RoHs	-
Dimensions	-	450,45 x 275,58 x 84 mm (L x W x H)	-
Weight	-		-
Material	-	Aluminum Front Bezel and Metal Case	-
Typ. Application	-	Industrial, Marine, Digital Signage, Outdoor	-

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Musterartikel

18,5" DeltaTough Panel-PC Rahmenlos Type 1

Musterartikel

<p>Bestellinformation</p>	<p>Artikel-Nr. Artikelnr. Bezeichnung 1, Bezeichnung 2</p>	<p>Artikel-Nr. PKPT4110 18,5" DeltaTough Panel-PC Rahmenlos Type 1, IP65, AG, Intel Tigerlake-UP3Core i3,350cd/m,12-24V,-40-70°C</p> <p>Artikel-Nr. PKPT4111 18,5" DeltaTough Panel-PC Rahmenlos Type 2, IP65, AG, Intel Tigerlake-UP3Core i5,350cd/m,12-24V,-40-70°C</p> <p>Artikel-Nr. PKPT4112 18,5" DeltaTough Panel-PC Rahmenlos Type 3, IP65, AG, Intel Tigerlake-UP3Core i7,350cd/m,12-24V,-40-70°C</p>	<p>Artikel-Nr. Artikelnr. Bezeichnung 1, Bezeichnung 2</p>
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21,5" Fanless Touch Panel-PC Typ 2, Full IP68



21,5" Fanless Touch Panel-PC Typ 1, Full IP68



21,5" Fanless Touch HMI Panel-PC, Full IP65

LCD Size	21,5"	21,5"	21,5"
Active Area	-	-	-
Pixel Pitch	0,24825 x 0,24825 mm (H x V)	0,24825 x 0,24825 mm (H x V)	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	16,7M	16,7M
Brightness	1.600 cd/m ² (250 cd/m ² optional)	1.600 cd/m ² (250 cd/m ² optional)	250cd/m ²
Contrast Ratio	900:1	900:1	-
Response Time	-	-	-
Viewing Angle	170° / 160° (H / V)	170° / 160° (H / V)	80° / 80° / 85° / 85° (U / D / R / L)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	100.000 hrs	100.000 hrs	-
TouchScreen	Projected capacitive TouchScreen	Projected capacitive TouchScreen	Projected capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA	100 x 100 mm VESA
CPU	7th Gen. Intel Core i7/i5/i3 or Intel Celeron G3930TE	6th Gen. Intel Core i7/i5/i3 or Intel Celeron 3955U	Intel Core i5-6300U 2.4GHz
Chipset	Intel® H110 PCH, Kabylake	Intel® Skylake-U integrated	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe
Watchdog Timer	Programmable 1 to 255 sec.	Programmable 1 to 255 sec.	1 to 255 levels reset
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	32GB	16GB	-
SDRAM	260-pin DDR4 2.133MHz	260-pin DDR4 2.133MHz	-
DIMM / MemorySocket	-	-	DDR4 SO-DIMM RAM
Compact Flash	-	-	-
SD	-	-	2x outside-accessible 2,5" drive bay (default)
HD SATA	64GB mSATA	64GB mSATA	1x mSATA
Internal Storage	-	-	-
Graphic Interface	-	-	1x (optional) HDMI
Interface COM	2x RS232	2x RS232	3x RS232/422/485
CAN	-	-	-
Interface USB	2x USB 2.0	2x USB 2.0	4x USB 3.0
Interface LAN	2x M12 10/100/1000 BASE-T	2x M12 10/100/1000 BASE-T	2x RJ-45 10/100/1000 BASE-T, Optional WLAN
Interface IO	-	-	4x (optional) Digital Input, 4x (optional) Digital Output
Mini PCIe	2x	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	-	-	1x Line Out, 1x MIC In (optional)
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Windows 10, Linux	Windows 10 / 8.1 / 7, Linux	Windows 10 / 8.1 / 7, Linux (Ubuntu)
Input Voltage Nominal	12VDC	12VDC	-
Input Voltage Min/Max	9 to 36V (optional)	9 to 36V (optional)	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	0°C to 50°C	0°C to 50°C	-10°C to 50°C
Storage Temperature	-20°C to 60°C	-20°C to 80°C	-20°C to 60°C
Relative Humidity	0 to 90% (non-condensing)	0 to 90% (non-condensing)	10 to 95% RH @ 50°C (non-condensing)
Protection	Full IP68 waterproof	Full IP68 waterproof	Full IP65 stainless steel chassis w/ waterproof connectors
Certification	-	-	CE, Class A FCC
Dimensions	544 x 43,5 x 335,5 mm (W x D x H)	544 x 43,5 x 335,5 mm (W x D x H)	620,3 x 423 x 62 mm (W x H x D)
Weight	7,7 kg	7,7 kg	11,56 kg
Material	Aluminum extrusion and heavy-duty steel	Aluminum extrusion and heavy-duty steel	Stainless steel chassis
Typ. Application	Industrial, Marine, Outdoor	Industrial, Marine, Outdoor	Industrial, Medical, Digital Signage

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21,5" Fanless Touch Panel-PC Typ 2, Full IP68



21,5" Fanless Touch Panel-PC Typ 1, Full IP68



21,5" Fanless Touch HMI Panel-PC, Full IP65

Bestellinformation

Artikel-Nr. PKPX8224
21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Celeron G3930TE 2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8225
21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i3-7101TE 3.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8226
21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i5-7500T 2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8227
21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i7-7700T 2.9GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8220
21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Celeron 3955U 2.0GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8221
21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i3-6100U 2.3GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8222
21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i5-6300U 2.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8223
21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full IP68, FHD, 4GB DDR4, Intel@Core i7-6600U 2.6GHz, 2x GbE LAN, 2x COM, 1.600cd/m²

Artikel-Nr. PKPX8126
21,5" Fanless Touch HMI Panel-PC, Full IP65 All-around w/ 4GB DDR4, Full HD, Intel@Core i5-6300U 2.4GHz, 2x GbE LAN, 2x mPCIe, 250 cd/m², 4x Serial ports

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Railway Panel-PC 10,4" PCAP Touch



Railway Panel-PC 12,3" w/o Touch



Railway Panel-PC 15" Black

LCD Size			15"
Active Area			-
Pixel Pitch			-
Aspect Ratio			-
Display Backlight	-	-	LED Backlight
Display Resolution	-	-	XGA (1.024x768)
Display Colors			16.7 Mio
Brightness			400 cd/m ²
Contrast Ratio			400:1
Response Time			-
Viewing Angle			horizontal and vertical 160°
Anti Reflection Glass			-
Strengthened Glass			-
Sunlight Readable			-
Gapless Optical Bonding			-
MTBF			40.000 h
TouchScreen			-
Keypad			6x stainless steel buttons
Cooling System			Fanless
Mounting System	-	-	-
CPU			Intel Atom E3826 Dual-Core, 1.6MHz
FSB Frequency			-
Chipset			-
Watchdog Timer			-
Basic Equipment			-
Maximum Equipment			up to 8GB
SDRAM			-
DIMM / MemorySocket			-
Compact Flash			-
SD			4-128GB C-FAST Industrial
HD SATA			-
Internal Storage			-
Graphic Interface	-	-	-
Interface COM			1x RS232
CAN			-
Interface USB	-	-	2x USB 2.0
Interface LAN	-	-	1x 10/100 BASE-T
Interface IO	-	-	-
Mini PCIe			-
Camera			-
Bluetooth			-
PS/2			-
Audio			-
Speakers			-
Headphone			-
RFID			-
SIM Card			-
GPS			-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe			-
Operating System			-
Operating System Support			-
Input Voltage Nominal			24 VDC
Input Voltage Min/Max			-
Output Voltage Nominal			-
Output Voltage Min/Max			-
Input Current			-
Operating Temperature			-25°C to +60°C
Storage Temperature			-30°C to +85°C
Relative Humidity			0% to 90%, non-condensing
Protection			IP4x
Certification	-	-	EN50155 (Railway)
Dimensions			365 x 309 x 70,5 / 73,6 mm
Weight			monitor: 6,95kg / mounting holder: 2,45kg
Material			-
Typ. Application	-	-	Railway

Railway Panel-PC & Railway Open Frame Panel-PC



Railway Panel-PC 10,4" PCAP Touch



Railway Panel-PC 12,3" w/o Touch



Railway Panel-PC 15" Black

Bestellinformation

Artikel-Nr. PKPR1530
Railway Panel-PC 10,4" PCAP Touch, IP65 Front,
9DC~36V In, Intel Celeron J6412 , 1.024x768,
1.000cd/m², 8GB DDR4

Artikel-Nr. PKPR1540
Railway Panel-PC 12,3" w/o Touch, DC 40~160V
In, Rockchip RK3566, 1.920x720, 500cd/m², 2GB
LPDDR4

Artikel-Nr. PKPR1010
15" Railway Panel-PC / IP-Monitor, Black, Intel®
Atom E3826 dual core, XGA, 1x GbE, 2x USB

Artikel-Nr. PKPR1010-1
Mounting holder for Railway Panel-PC 15" /
IP-Monitor, Black

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Railway Panel-PC & Railway Open Fra
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Railway Panel-PC & Railway Open Frame Panel-PC



Railway Panel-PC 15" Silver



Railway Panel-PC 15,6" PCAP Touch



Railway Panel-PC 37,6" / 16:4,5 w/o Touch

LCD Size	15"		
Active Area	-		
Pixel Pitch	-		
Aspect Ratio	-		
Display Backlight	LED Backlight	-	-
Display Resolution	XGA (1.024x768)	-	-
Display Colors	16,7M		
Brightness	400 cd/m²		
Contrast Ratio	400:1		
Response Time	-		
Viewing Angle	160° / 160° (H / V)		
Anti Reflection Glass	-		
Strengthened Glass	-		
Sunlight Readable	-		
Gapless Optical Bonding	-		
MTBF	40.000 h		
TouchScreen	-		
Keypad	6x stainless steel buttons		
Cooling System	Fanless		
Mounting System	-	-	-
CPU	Intel Atom E3826 Dual-Core, 1.6MHz		
FSB Frequency	-		
Chipset	-		
Watchdog Timer	-		
Basic Equipment	-		
Maximum Equipment	up to 8GB		
SDRAM	-		
DIMM / MemorySocket	-		
Compact Flash	-		
SD	4-128GB C-FAST Industrial		
HD SATA	-		
Internal Storage	-		
Graphic Interface	-	-	-
Interface COM	1x RS232		
CAN	-		
Interface USB	2x USB 2.0	-	-
Interface LAN	1x 10/100 BASE-T	-	-
Interface IO	-	-	-
Mini PCIe	-		
Camera	-		
Bluetooth	-		
PS/2	-		
Audio	-		
Speakers	-		
Headphone	-		
RFID	-		
SIM Card	-		
GPS	-		
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-		
Operating System	-		
Operating System Support	-		
Input Voltage Nominal	24 VDC		
Input Voltage Min/Max	-		
Output Voltage Nominal	-		
Output Voltage Min/Max	-		
Input Current	-		
Operating Temperature	-25°C to +60°C		
Storage Temperature	-30°C to +85°C		
Relative Humidity	0% to 90%, non-condensing		
Protection	IP4x		
Certification	EN50155 (Railway)	-	-
Dimensions	365 x 309 x 70,5 / 73,6 mm		
Weight	monitor: 6,95kg / mounting holder: 2,45kg		
Material	-		
Typ. Application	Railway	-	-

Railway Panel-PC & Railway Open Frame Panel-PC



Railway Panel-PC 15" Silver



Railway Panel-PC 15,6" PCAP Touch



Railway Panel-PC 37,6" w/o Touch

Bestellinformation

Artikel-Nr. PKPR1001
Railway Panel-PC 15" / IP-Monitor, Silver, Intel®
Atom E3826 dual core, XGA, 1x GbE, 2x USB

Artikel-Nr. PKPR1001-1
Mounting holder for Railway Panel-PC 15" /
IP-Monitor, Silver

Artikel-Nr. PKPR1550
Railway Panel-PC 15,6" PCAP Touch, DC
16,8-31,2V In, Intel Celeron 4305UE,
1.920x1.080, 450cd/m², 4GB DDR3L

Artikel-Nr. PKPR1551
Railway Panel-PC 15,6" PCAP Touch, DC
16,8-31,2V In, Intel Core i3-8145UE, 1.920x1.080,
450cd/m², 4GB DDR3L

Artikel-Nr. PKPR1552
Railway Panel-PC 15,6" PCAP Touch, DC
16,8-31,2V In, Intel Core i5-8365UE, 1.920x1.080,
450cd/m², 4GB DDR3L

Artikel-Nr. PKPR1553
Railway Panel-PC 15,6" PCAP Touch, DC
16,8-31,2V In, Intel Core i7-8665UE, 1.920x1.080,
450cd/m², 4GB DDR3L

Artikel-Nr. PKPR1524
Railway Panel-PC 37,6" w/o Touch, IP65,
17DC-31V In, Intel Atom x6413E, 1.920x540,
1.000cd/m², 4GB DDR4

Artikel-Nr. PKPR1525
Railway Panel-PC 37,6" w/o Touch, IP65,
17DC-31V In, Intel Celeron J6412, 1.920x540,
1.000cd/m², 4GB DDR4

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**vROK3030,10,4" Railway Panel-PC
Open Frame**

LCD Size	10,4"
Active Area	
Pixel Pitch	
Aspect Ratio	4:3
Display Backlight	LED Backlight
Display Resolution	XGA (1.024x768)
Display Colors	
Brightness	1.200 cd/m ² (typical)
Contrast Ratio	900:1 (typical)
Response Time	
Viewing Angle	170°(H)/170°(V)
Anti Reflection Glass	
Strengthened Glass	
Sunlight Readable	
Gapless Optical Bonding	
MTBF	
TouchScreen	LCD monitor+projected capacitive touch screen
Keypad	
Cooling System	
Mounting System	VESA
CPU	Intel Atom® x6414RE quad core processor, 1.5 GHz, TDP 9W
FSB Frequency	
Chipset	
Watchdog Timer	
Basic Equipment	4GB
Maximum Equipment	32GB
SDRAM	DDR4
DIMM / MemorySocket	1 x 260-pin
Compact Flash	
SD	
HD SATA	
Internal Storage	
Graphic Interface	1x HDMI, 1x DisplayPort
Interface COM	2x RS232/RS422/RS485
CAN	Isolated CANBus 2.0 x1
Interface USB	-
Interface LAN	2x 10/100/1000 BASE-T, IPoE supported for IP camera x2 (Optional) PoE
Interface IO	-
Mini PCIe	
Camera	
Bluetooth	
PS/2	
Audio	
Speakers	
Headphone	
RFID	
SIM Card	
GPS	
Mobile Communication 2G	-
Mobile Communication 3G	-
PCIe	
Operating System	
Operating System Support	
Input Voltage Nominal	
Input Voltage Min/Max	14 to 48VDC
Output Voltage Nominal	
Output Voltage Min/Max	
Input Current	
Operating Temperature	-30°C to 70°C
Storage Temperature	-40°C to 80°C
Relative Humidity	10% to 90% (non-condensing)
Protection	
Certification	CE, Class OT3 (-30 to 70°C) EN50155 (Railway), Class A FCC
Dimensions	185 x 120 x 45 mm
Weight	1 Kg
Material	
Typ. Application	-



**vROK3030,10,4" Railway Panel-PC
Open Frame**

Bestellinformation

Artikel-Nr. PKPR1100
vROK3030,10,4" Railway Panel-PC Open Frame,
Intel Atom x6414RE, 1.5GHz, 1.024x768, 1x HDMI

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