

Selection Guide

Industrial Panel PC

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56 Artikel aus dem Bereich
Industrial Panel PC
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Selection Guide Industrial Panel PC



5" Fanless Touch HMI Slim Panel-PC Front IP65



7" Fanless Touch Panel-PC Front IP65/IP40



7" Fanless Touch Panel-PC Front IP65

LCD Size	5"	7"	7"
Active Area	-	154,2 x 85,9 mm	153,6 x 90 mm
Pixel Pitch	-	-	-
Aspect Ratio	16:9	16:9	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	960 x 540 QHD Special Resolution	WSVGA (1.024x600), 1080p (1.920x1.080)	WSVGA (1.024x600)
Display Colors	-	16,7M	16,7M
Brightness	350cd/m²	500 cd/m²	500 cd/m²
Contrast Ratio	-	700:1	700:1
Response Time	-	10 ms / 15 ms (Tr / Tf)	10 ms / 15 ms (Tr / Tf)
Viewing Angle	-	150° / 145° (H / V)	150° / 145° (H / V)
Anti Reflection Glass	-	Anti-reflective (chemically etched)	Anti-glare treatment (chemical etching)
Strengthened Glass	-	7H - Glass hardening: Chemically hardened	7H
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	x	-
MTBF	-	20.000 h	20.000 h
TouchScreen	Projected Capacitive TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	50 x 50 mm VESA, Optional Stand	VESA 75 VESA	100 x 100 mm VESA, Metal stand (included) Stand
CPU	ARM Cortex-A7 Dual Core 1GHz, MTK MT2601	Allwinner V40 Cortex A7 Quad Core 1GHz	Intel Pentium QuadCore N4200
Chipset	-	Cortex A7	Intel® E3800
Watchdog Timer	-	-	-
Basic Equipment	512MB	2GB	4GB
Maximum Equipment	-	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	LPDDR2	DDR3	DDR3L
Compact Flash	-	8GB EMMC Flash	-
SD	-	2x SD card	-
HD SATA	-	-	-
Internal Storage	4GB eMMC	-	128GB Industrial SSD
Graphic Interface	-	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS	Intel® HD Graphics Graphics Adapter, 1x DisplayPort, Internal LCD-LVDS
Interface COM	1x RS232/422/485 (DB9 male)	-	3x RS232/485
CAN	2.0b (optional)	1x	-
Interface USB	2x USB 2.0	1x USB OTG USB, 4x USB 2.0	3x USB 2.0, 1x USB 3.0
Interface LAN	1x 10/100 BASE-T, IEEE 802.11a/b/g/n/ac WLAN	1x 10/100 BASE-T, WLAN	2x 10/100/1000 BASE-T, WLAN
Interface IO	4x 3,3V GPIO GPIO	4x GPIO	GPIO, Digital Input, Digital Output
Mini PCIe	-	1x	-
Camera	Front: 2.0 MP	-	-
Bluetooth	4.1 (BLE, HS compliant)	-	-
Audio	1x built-in microphone	Audio-In, Audio-Out, Line-In, Line-Out	1x MIC-In
Speakers	1x built-in (0,8W)	1x amplifier for 2x 6W speakers	-
RFID	-	-	-
SIM Card	1x mini-SIM (2FF) slot	2x SIM card slot	-
GPS	Option: GPS mouse (GPS/GLONASS/Beidou)	-	-
Mobile Communication 2G	GSM+GPRS	-	-
Mobile Communication 3G	HSDPA+WCDMA	-	-
PCIe	-	-	2x Mini Card slots with PCIe and USB interface
Operating System	-	Android 6.0	Linux Ubuntu
Operating System Support	Android 5.1	-	Windows 10 / 8 / 7, Linux (32-bit / 64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 24VDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	8W	15W
Operating Temperature	-10°C to 50°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-20°C to 60°C	-	-
Relative Humidity	5% to 90% RH	10% to 90%	10% to 90%
Protection	Front bezel IP65	IP rating: IP65 front housing / IP40 back housing	IP65 front housing
Certification	MIL-STD-810F, MIL-STD-810G, RoHs	-	-
Dimensions	149,3 x 110 x 36,8 mm (W x H x D)	195,6 x 137,6 x 38,4 mm (L x W x H)	195,6 x 137,6 x 48,5 mm (L x W x H)
Weight	0,350 kg	1 Kg	2,3 Kg
Material	-	Silicone rim, ABS plastic Back casing	Aluminum Housing
Typ. Application	Industrial, Automotive, Medical, Digital Signage	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



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



**7" Fanless Touch Panel-PC Front
IP65/IP40**



7" Fanless Touch Panel-PC Front IP65

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. PKPX8270 7" Fanless Touch Panel-PC w/PCT, IP65, 2GB DDR3, Allwinner® V40 Cortex A7 QC, 500cd/m², HDMI, VGA, USB	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
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56 Artikel aus dem Bereich
Industrial Panel PC
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Selection Guide Industrial Panel PC



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



8" Fanless Touch HMI Slim Panel-PC Typ 2



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

LCD Size	8"	8"	8"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	16:9	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	SVGA (800x600)	WSVGA (1.024x600)	SVGA (800x600)
Display Colors	-	-	-
Brightness	400 cd/m²	500 cd/m²	400 cd/m²
Contrast Ratio	500:1	700:1 (typ.)	500:1
Response Time	-	-	-
Viewing Angle	50°/70°/70°/70° (U/D/L/R)	70° / 75° / 75° / 75° (typ.)	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)	Projected Capacitive TouchScreen	5-wire resistive (flush panel type)
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	75 x 75 mm VESA	VESA, Stand
CPU	Intel Atom D525 1.8GHz	ARM Cortex-A35 Quad Core up to 1.5GHz	Intel Atom D525 1.8GHz
Chipset	Intel ICH8M	Rockchip PX30	Intel ICH8M
Watchdog Timer	-	-	-
Basic Equipment	1GB	2GB	1GB
Maximum Equipment	2GB	-	2GB
SDRAM	-	DDR4	-
DIMM / MemorySocket	DDR3	-	DDR3
Compact Flash	1x	-	1x
SD	-	Micro SD card slot, maximum card 32GB	-
HD SATA	-	-	-
Internal Storage	-	16GB eMMC	-
Graphic Interface	-	LCD-LVDS	-
Interface COM	1x RS232, 1x RS232/422/485	1x RS232, 1x RS232/422/485	1x RS232
CAN	-	OBD-II	-
Interface USB	4x USB 2.0	3x USB 2.0	2x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T	1x 10/100 BASE-T, IEEE 802.11 a/b/g/n/ac WLAN	2x 10/100/1000 BASE-T
Interface IO	4x Digital Input, 4x Digital Output	(dry contact / galvanically isolated) GPIO, 3x Digital Input, 3x Digital Output	-
Mini PCIe	1x	Mini PCIe interface	1x
Camera	-	Front: 8.0 MP CMOS MIPI-CSI type AF	-
Bluetooth	-	4.2 low power BLE	-
Audio	Line-Out, Line-in, Mic-In Audio Jack	1x built-in microphone	-
Speakers	-	1x built-in (1W)	-
RFID	-	13.56MHz RFID & NFC reader	-
SIM Card	-	1x nano SIM card	-
GPS	-	optional	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	-	Android 8.1 / (Linux Buildroot by request)	-
Input Voltage Nominal	12VDC	-	12VDC
Input Voltage Min/Max	-	9 to 36V auto-detection (Ignition detection)	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-5°C to 50°C	-20°C to 70°C	-5°C to 50°C
Storage Temperature	-20°C to 75°C	-20°C to 70°C	-20°C to 75°C
Relative Humidity	10% to 90%, non-condensing	5% to 90% RH @ 50°C (non-condensing)	10% to 90%, non-condensing
Protection	IP65 front	-	IP65 front
Certification	CE	CE, E-Mark e13 (Vehicle), FCC	CE
Dimensions	217.4 x 176.4 x 61.9 mm	218,16 x 162,67 x 46,5 mm (W x H x D)	217.4 x 176.4 x 46.7 mm
Weight	2kg	0,94 Kg	2kg
Material	-	-	-
Typ. Application	Industrial	Industrial, Automotive, Medical, Digital Signage	Industrial

Selection Guide Industrial Panel PC



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



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



**8" Fanless Touch Panel PC Front IP65
(1x COM)**

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. 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. 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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56 Artikel aus dem Bereich Industrial Panel PC wurden für das PDF ausgewählt.

Selection Guide Industrial Panel PC



8" Fanless Touch Panel-PC Front IP65 Typ 2



8" Fanless Touch Panel-PC Front IP65 Typ 3



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

LCD Size	8"	8"	9,7"
Active Area	-	162 x 122 mm	197 x 147 mm
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)	XGA (1.024x768)
Display Colors	262K	16,7M	16,7M
Brightness	400 cd/m²	250 cd/m²	350 cd/m²
Contrast Ratio	500:1	700:1	800:1
Response Time	-	6 ms / 14 ms (Tr / Tf)	10 ms / 15 ms (Tr / Tf)
Viewing Angle	50°/70°/70°/70° (U/D/L/R)	150° / 150° (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	5-wire resistive (flush panel type)	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	100 x 100 mm VESA	100 x 100 mm VESA, Metal stand (included) Stand
CPU	Intel Atom E3826, 1.46GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Pentium N4200 Quad Core, up to 2.5 GHz
Chipset	-	-	-
Watchdog Timer	1 to 255 seconds and from 1 to 255 minutes (Tolerance 15% under room temperature 25°C)	-	-
Basic Equipment	2GB	4GB	4GB
Maximum Equipment	8GB	8GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L	DDR3L
Compact Flash	1x CFast	-	-
SD	-	-	-
HD SATA	1x 2.5" SATA HDD or 1x SATA DOM	-	-
Internal Storage	-	128GB Industrial SSD	128GB Industrial SSD
Graphic Interface	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS
Interface COM	2x RS232/422/485	1x RS232/485, 2x RS232/485, full-PIN	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN	-	-	-
Interface USB	3x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x USB 3.0	2x USB 2.0, 2x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T	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	1x	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	Line-Out, Line-In (Optional), MIC-In (Optional) audio Jack	1x MIC-In	1x MIC-In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x Mini PCIe	1x PCIe1 Straddle Connector	1x PCIe x1 straddle connector
Operating System	-	Linux Ubuntu	Linux Ubuntu (preinstalled)
Operating System Support	-	Windows 10, Linux (32-bit / 64-bit)	Linux Ubuntu + Windows 10
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 30VDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	14W	14W
Operating Temperature	-5°C to 50°C	-10°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%	10% to 90%
Protection	IP65 front	IP65 front housing, IP40 back housing	IP65 front housing / IP40 rear housing
Certification	CE, FCC	-	-
Dimensions	217,4 x 176,4 x 68,9mm	201 x 160,5 x 46,7 mm (L x W x H)	244,9 x 195,8 x 50 mm (L x W x H)
Weight	2,3kg	1,8 Kg	2 Kg
Material	-	Silicone edge, aluminum IPC back housing	Rubber front case, Aluminum IPC back case
Typ. Application	Industrial	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



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



**8" Fanless Touch Panel-PC Front IP65
Typ 3**



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

Bestellinformation

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. 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. 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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56 Artikel aus dem Bereich
Industrial Panel PC
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Selection Guide Industrial Panel PC



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



10" Fanless Touch Panel-PC w/ PCT, IP65



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

LCD Size	9,7"	10"	10,1"
Active Area	197 x 147 mm	197 x 147 mm	-
Pixel Pitch	-	-	-
Aspect Ratio	4:3	4:3	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	SXGA (1.280x1.024), 1080p (1.920x1.080)	WXGA (1.280x800)
Display Colors	16,7M	16,7M	16,7M
Brightness	350 cd/m²	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)	80° / 80° / 85° / 85° (U / D / R / L)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	Anti-reflective (chemically etched)	-
Strengthened Glass	7H	7H - Glass hardening: Chemically hardened	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	x	-
MTBF	20.000 h	20.000 h	-
TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	VESA 100 VESA	75 x 75 mm VESA
CPU	7th Gen. Intel Core i5-7300U, Dual Core 2.6 GHz (up to 3.5 GHz)	Allwinner V40 Cortex A7 Quad Core 1GHz	Intel® Core i5-6300U 2.4GHz
Chipset	-	Cortex A7	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe
Watchdog Timer	-	-	1 to 255 levels reset
Basic Equipment	8GB	2GB	4GB
Maximum Equipment	16GB	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR4	DDR3	DDR4 SO-DIMM RAM
Compact Flash	-	8GB EMMC Flash	-
SD	-	2x SD card	-
HD SATA	-	-	1x mSATA
Internal Storage	128GB Industrial SSD	-	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS	1x HDMI
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	-	2x RS232/422/485
CAN	-	1x	-
Interface USB	4x USB 3.0	1x USB OTG USB, 4x USB 2.0	4x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	1x 10/100 BASE-T, WLAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN
Interface IO	GPIO, Digital Input, Digital Output	4x GPIO	-
Mini PCIe	-	1x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	Audio-In, Audio-Out, Line-In, Line-Out	1x Line Out, 1x MIC In (optional)
Speakers	-	1x amplifier for 2x 6W speakers	-
RFID	-	-	-
SIM Card	-	2x SIM card slot	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe x1 straddle connector	-	-
Operating System	Linux Ubuntu (preinstalled)	Android 6.0	-
Operating System Support	Linux Ubuntu + Windows 10	-	Windows 10 / 8.1 / 7, Linux (Ubuntu)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	100 to 240VACDC	12 to 28VDC
Output Voltage Nominal	12VDC	8-18VDC	-
Output Voltage Min/Max	-	-	-
Input Current	28W	9W	Max. 23W (w/o I/O cards)
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-20°C to 55°C
Storage Temperature	-	-	-30°C to 70°C
Relative Humidity	10% to 90%	10% to 90%	10 to 95% RH @ 55°C (non-condensing)
Protection	IP65 front housing / IP40 rear housing	IP rating: IP65 front housing / IP40 back housing	Front panel compliant with IP65
Certification	-	-	CE, Class A FCC
Dimensions	245 x 195,8 x 59 (L x W x H)	244,9 x 195,8 x 34 mm (L x W x H)	255 x 175 x 76,5 mm (W x H x D)
Weight	2 Kg	2 Kg	2,41 kg
Material	Silicone edge, ABS plastic Back housing	Silicone rim, ABS plastic Back casing	Aluminum front bezel and SGCC steel chassis
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor	Industrial, Medical, Digital Signage

Selection Guide Industrial Panel PC



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



**10" Fanless Touch Panel-PC w/
PCT, IP65**



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

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. PKPX8275
10" Fanless Touch Panel-PC w/ PCT, IP65, 2GB
DDR3, Allwinner V40 Cortex A7 QC, 350cd/m²,
HDMI, Android

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

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56 Artikel aus dem Bereich
Industrial Panel PC
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Selection Guide Industrial Panel PC



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



10,1" Fanless Touch Panel-PC Front IP65



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

LCD Size	10,1"	10,1"	10,1"
Active Area	-	217 x 136 mm	217 x 136 mm
Pixel Pitch	-	-	-
Aspect Ratio	-	16:10	16:10
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WXGA (1.366x768)	WXGA (1.366x768)
Display Colors	16,7M	16,7M	16,7M
Brightness	350 cd/m²	350 cd/m²	350 cd/m²
Contrast Ratio	-	700:1	800:1
Response Time	-	10 ms / 15 ms (Tr / Tf)	10 ms / 15 ms (Tr / Tf)
Viewing Angle	85° / 85° / 85° / 85° (U / D / R / L)	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	Projected Capacitive TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	75 x 75 mm, 100 x 100 mm with Bracket VESA	100 x 100 mm VESA, Standard stand (included) Stand	100 x 100 mm VESA, Metal stand (included) Stand
CPU	Intel N2930 Quad-Core 1.83GH	Allwinner V40 Cortex A7 Quad Core 1GHz	Intel Pentium N4200 Quad Core, up to 2.5 GHz
Chipset	2x Intel i210AT GbE	Cortex A7	-
Watchdog Timer	1 to 255 levels reset	-	-
Basic Equipment	2GB	1GB	4GB
Maximum Equipment	8GB	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM RAM	DDR3	DDR3L
Compact Flash	-	8GB EMMC Flash	-
SD	-	1x SD card	-
HD SATA	1x mSATA for SATA interface SSD	-	128GB Industrial SSD
Internal Storage	-	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS
Graphic Interface	-	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
Interface COM	-	-	-
CAN	-	1x	-
Interface USB	1x USB 2.0, 1x USB 3.0	1x USB OTG USB, 4x USB 2.0	2x USB 2.0, 2x USB 3.0
Interface LAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	1x 10/100 BASE-T, WLAN	2x 10/100/1000 BASE-T, WLAN
Interface IO	-	4x GPIO	GPIO, Digital Input, Digital Output
Mini PCIe	2x	1x	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line Out, 1x MIC In	Audio-In, Audio-Out, Line-In, Line-Out	1x MIC-In
Speakers	-	2x 6W	-
RFID	-	-	-
SIM Card	-	1x SIM card slot	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	1x PCIe x1 straddle connector
Operating System	-	Android 6.0	Linux Ubuntu (preinstalled)
Operating System Support	Windows 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)	-	Linux Ubuntu + Windows 10
Input Voltage Nominal	12VDC	-	-
Input Voltage Min/Max	-	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	11W	14W
Operating Temperature	-20°C to 55°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-30°C to 70°C	-	-
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10% to 90%	10% to 90%
Protection	Front panel compliant with IP65	IP65 front housing	IP65 front housing / IP40 rear housing
Certification	CE, Class A FCC	-	-
Dimensions	255 x 175 x 39,5 mm (W x H x D)	27,6 x 19,2 x 3,35 mm (L x W x H)	278 x 203,6 x 49,3 mm (L x W x H)
Weight	1,7 Kg	2 Kg	2 Kg
Material	Aluminum front bezel and SECC steel chassis	Rubber Front Case, Plastic Back Case	Rubber front case, Aluminum IPC back case
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



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



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



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

Bestellinformation

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. PKPX8206

10,1" Fanless Touch Panel-PC Front IP65 w/ PCT,
1GB DDR3, Allwinner® V40 Cortex™ A7,
350cd/m2, HDMI, Android

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

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



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 (1.280x800)	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	75 x 75 mm VESA	75 x 75 mm, 100 x 100 mm with Bracket 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	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	8GB	4GB	2GB
Maximum Equipment	16GB	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR4	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	1x HDMI	-
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	2x RS232/422/485	-
CAN	-	-	-
Interface USB	4x 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 PCIe1 Straddle Connector	-	-
Operating System	Linux Ubuntu	-	-
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	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	30W	-	-
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 back housing	Front panel compliant with IP65	Front panel compliant with IP65
Certification	-	CE, Class A FCC	CE, Class A FCC
Dimensions	Tbd.	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	2,3 Kg	Tbd.	2,1 Kg
Material	Silicone edge, aluminum IPC back housing	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 4**



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



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

Bestellinformation

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

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 Front IP65



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



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

LCD Size	12,1"	12,1"	12,1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	4:3	4:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	SVGA (800x600)	SVGA (800x600)	XGA (1.024x768)
Display Colors	-	16.2M	16.2M
Brightness	450 cd/m²	450 cd/m²	500 cd/m²
Contrast Ratio	700:1	700:1	700:1
Response Time	-	-	-
Viewing Angle	65°/75°/80°/80° (U/D/L/R)	65°/75°/80°/80° (U/D/L/R)	80°/80°/80°/80° (U/D/L/R)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	-
TouchScreen	Fully fl at 5-wire resistive	5-wire resistive	5-wire resistive
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	VESA, Stand	VESA, Stand
CPU	Intel Atom D525 1.8GHz	Celeron J1900 Quad Core, up to 2.42GHz	Celeron J1900 Quad Core, up to 2.42GHz
Chipset	Intel ICH8M	-	-
Watchdog Timer	-	1 to 255 sec and from 1 to 255 minutes	1 to 255 sec and from 1 to 255 minutes
Basic Equipment	1GB	4GB	4GB
Maximum Equipment	2GB	8GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3	DDR3L SO-DIMM	DDR3L SO-DIMM
Compact Flash	1x	x	x
SD	-	-	-
HD SATA	-	optional 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	1x Optional, 2x RS232/422/485	2x RS232/422/485 w/ 2.5kv isolated	2x RS232/422/485 w/ 2.5kv isolated
CAN	Optional	-	-
Interface USB	4x USB 2.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T	2x RJ45 10/100/1000 BASE-T	2x RJ45 10/100/1000 BASE-T
Interface IO	Optional GPIO	-	-
Mini PCIe	2x	2x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	-	1x Line-out	1x Line-Out
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	2x Mini PCIe	2x Mini PCIe
Operating System	-	-	-
Operating System Support	-	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)	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	60W
Operating Temperature	-5°C to 50°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, Shock & Vibration	IP65 front, Shock & Vibration
Certification	CE	CE, Class A FCC	CE, FCC
Dimensions	317 x 243 x 65 mm	317 x 243 x 65,89mm	317 x 243 x 65,89mm
Weight	3.8kg	4 kg	4 kg
Material	-	-	-
Typ. Application	Industrial	Industrial	Industrial

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



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



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

Bestellinformation

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

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

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

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**12,1" Fanless Touch Panel-PC Front
IP65 Typ 6**



**13,3" Fanless Touch Panel-PC Front
IP65 Typ 1**



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

LCD Size	12,1"	13,3"	13,3"
Active Area	266 x 184 mm	293,7 x 165,2 mm	293,7 x 165,2 mm
Pixel Pitch	-	-	-
Aspect Ratio	4:3	16:9	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,2M	16,7M	16,7M
Brightness	500 cd/m²	350 cd/m²	350 cd/m²
Contrast Ratio	700:1	700:1	700:1
Response Time	25 ms / 10 ms (Tr / Tf)	14 ms / 11 ms (Tr / Tf)	14 ms / 11 ms (Tr / Tf)
Viewing Angle	160° / 160° (H / V)	178° / 178° (H / V)	178° / 178° (H / V)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	Anti-glare treatment (chemical etching)	Anti-glare treatment (chemical etching)
Strengthened Glass	7H	7H	7H
Sunlight Readable	-	-	-
Gapless Optical Bonding			
MTBF	30.000 h	15.000 h	15.000 h
TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	100 x 100 mm VESA	100 x 100 mm VESA
CPU	Intel Pentium QuadCore N4200	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset	Intel® E3800	-	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	4GB	8GB
Maximum Equipment	8GB	8GB	16GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L	DDR3L	DDR4
Compact Flash	-	-	-
SD	-	-	-
HD SATA	-	-	-
Internal Storage	128GB Industrial SSD	128GB Industrial SSD	128GB Industrial SSD
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x DisplayPort, Internal LCD-LVDS	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	2x RS232/485	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	3x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x USB 3.0	4x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	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	GPIO, Digital Input, Digital Output
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x MIC-In	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	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector
Operating System	Linux Ubuntu	Linux Ubuntu	Linux Ubuntu
Operating System Support	Windows 10 / 8 / 7, Linux (32-bit / 64-bit)	Windows 10, Linux (32-bit / 64-bit)	Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	12VDC	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	30W	15W	34W
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-	-	-
Relative Humidity	10% to 90%	10% to 90%	10% to 90%
Protection	IP65 front housing	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing
Certification	-	-	-
Dimensions	309 x 239 x 54 mm (L x W x H)	338,2 x 220,7 x 48,3 (L x W x H)	338,2 x 220,7 x 57,3 (L x W x H)
Weight	3,5 Kg	3,4 Kg	3,6 Kg
Material	Aluminum Housing	Silicone edge, aluminum IPC back housing	Silicone edge, aluminum IPC back housing
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



**12,1" Fanless Touch Panel-PC Front
IP65 Typ 6**



**13,3" Fanless Touch Panel-PC Front
IP65 Typ 1**



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

Bestellinformation

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. PKPX8212

13,3" Fanless Touch Panel-PC Type 1 w/ PCT,
FHD, 4GB DDR3L, Intel® Pentium® N4200,
350cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

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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15" Fanless Touch Panel PC Front IP65

15" Fanless Touch Panel PC Front IP65
Typ 315" Fanless Touch Panel-PC Front IP65
Typ 6

LCD Size	15"	15"	15"
Active Area	-	-	304 x 228 mm
Pixel Pitch	-	-	-
Aspect Ratio	-	4:3	4:3
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	XGA (1.024x768)	XGA (1.024x768)
Display Colors	-	16.2M	16.7M
Brightness	400 cd/m²	450 cd/m²	300 cd/m²
Contrast Ratio	700:1	800:1	700:1
Response Time	-	-	8 ms / 12 ms (Tr / Tf)
Viewing Angle	60°/80°/80°/80° (U/D/L/R)	70°/80°/80°/80° (U/D/L/R)	160° / 160° (H / V)
Anti Reflection Glass	-	-	Anti-glare treatment (chemical etching)
Strengthened Glass	-	-	7H
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	-	30.000 h
TouchScreen	Fully fl at 5-wire resistive	5-wire resistive	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	VESA, Stand	100 x 100 mm VESA
CPU	Intel Atom D525 1.8GHz	Celeron J1900 Quad Core, up to 2.42GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz
Chipset	Intel ICH8M	-	-
Watchdog Timer	-	1 to 255 seconds and from 1 to 255 minutes	-
Basic Equipment	1GB	4GB	4GB
Maximum Equipment	2GB	8GB	8GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3	DDR3L SO-DIMM	DDR3L
Compact Flash	1x	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	1x Optional, 2x RS232/422/485	2x RS232/422/485 w/ 2.5kv isolated	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN	Optional	-	-
Interface USB	4x USB 2.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T	2x RJ45 10/100/1000 BASE-T	2x 10/100/1000 BASE-T, WLAN
Interface IO	Optional GPIO	-	GPIO, Digital Input, Digital Output
Mini PCIe	2x	2x	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	Line-Out, Line-In, Mic-In	1x Line-Out	1x MIC-In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini-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	12 to 30VDC	100 to 240VACDC
Output Voltage Nominal	-	-	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	60W	17W
Operating Temperature	-5°C to 50°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	IP65 front, Shock & Vibration	IP65 front housing, IP40 back housing
Certification	CE	CE, FCC	-
Dimensions	409 x 309 x 62.5 mm	384,37 x 309,95 x 63,2 mm	359 x 298 x 61 mm (L x W x H)
Weight	5.3kg	5,1 kg	3,4 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



**15" Fanless Touch Panel PC Front IP65
Typ 3**



**15" Fanless Touch Panel-PC Front IP65
Typ 6**

Bestellinformation	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	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. PKPX8230 15" Fanless Touch Panel-PC Type 6 w/ PCT, XGA, 4GB DDR3L, Intel® Pentium® N4200, 300cd/m², HDMI+DP, IP65 front, Linux Ubuntu, Optical Bonding
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15" Fanless Touch Panel-PC Front IP65 Typ 7



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



15,6" Fanless Touch Panel-PC w/PCT, IP65

LCD Size	15"	15,6"	15,6"
Active Area	304 x 228 mm	344,2 x 193,6 mm	344,2 x 193,6 mm
Pixel Pitch	-	-	-
Aspect Ratio	4:3	16:9	16:9
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	XGA (1.024x768)	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	262K	16,7M
Brightness	300 cd/m²	250 cd/m²	250 cd/m²
Contrast Ratio	700:1	800:1	800:1
Response Time	8 ms / 12 ms (Tr / Tf)	15 ms / 15 ms (Tr / Tf)	15 ms / 15 ms (Tr / Tf)
Viewing Angle	160° / 160° (H / V)	170° / 170° (H / V)	170° / 170° (H / V)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	Anti-glare treatment (chemical etching)	Anti-reflective (chemically etched)
Strengthened Glass	7H	7H	7H - Glass hardening: Chemically hardened
Sunlight Readable	-	-	-
Gapless Optical Bonding			x
MTBF	30.000 h	15.000 h	15.000 h
TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA	VESA 100 VESA
CPU	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)	11th Gen. Intel Core i5-1145G7E Tiger Lake Quad Core 1.5 GHz (up to 4.1 GHz)	Allwinner V40 Cortex A7 Quad Core 1GHz
Chipset	-	-	Cortex A7
Watchdog Timer	-	-	-
Basic Equipment	8GB	8GB	2GB
Maximum Equipment	16GB	64GB	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR4	DDR4	DDR3
Compact Flash	-	-	8GB EMMC Flash
SD	-	x	2x SD card
HD SATA	-	x	-
Internal Storage	128GB Industrial SSD	240GB Industrial SSD	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS
Interface COM	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN	2x RS232	-
CAN	-	-	1x
Interface USB	4x USB 3.0	2x USB 2.0, 2x USB 3.0	1x USB OTG USB, 4x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T, WLAN	1x 10/100 BASE-T, WLAN
Interface IO	GPIO, Digital Input, Digital Output	-	4x GPIO
Mini PCIe	-	-	1x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x MIC-In	Audio-In, Audio-Out, Line-In, Line-Out
Speakers	-	2x 2W	1x amplifier for 2x 6W speakers
RFID	-	-	-
SIM Card	-	1x	2x SIM card slot
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector	-
Operating System	Linux Ubuntu	Debian 12	Android 6.0
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	WINDOWS 10/11, LINUX Ubuntu 22.4	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	100 to 240VACDC	9-36VDC	100 to 240VACDC
Output Voltage Nominal	12VDC	-	12VDC
Output Voltage Min/Max	-	-	-
Input Current	30W	19,6W	13W
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-	-	-
Relative Humidity	10% to 90%	10% to 90%	10% to 90%
Protection	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing	IP rating: IP65 front housing / IP40 back housing
Certification	-	CE, FCC, RoHs	-
Dimensions	359 x 291 x 71 mm (L x W x H)	389,3 x 246,8 x 43,3 mm	389,3 x 246,8 x 33,3 mm (L x W x H)
Weight	3,4 Kg	4,2 Kg	3,4 Kg
Material	Silicone edge, aluminum IPC back housing	Silicone edge, aluminum IPC back housing	Silicone rim, ABS plastic Back casing
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



15" Fanless Touch Panel-PC Front IP65
Typ 7



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



15,6" Fanless Touch Panel-PC
w/PCT,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. 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. PKPX8290 15,6" Fanless Touch Panel-PC w/PCT,IP65, Allwinner® V40 Cortex A7 QC,250cd/m²,HDMI,VGA,USB
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15,6" Fanless Touch Panel-PC Front IP65 Typ 2



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



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

LCD Size	15,6"	15,6"	15,6"
Active Area	344,2 x 193,6 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)	WXGA (1.366x768)	WXGA (1.366x768)
Display Colors	262K	16,7M	16,7M
Brightness	250 cd/m²	300 cd/m²	300cd/m²
Contrast Ratio	800:1	-	-
Response Time	15 ms / 15 ms (Tr / Tf)	-	-
Viewing Angle	170° / 170° (H / V)	80° / 80° / 85° / 85° (U / D / R / L)	80° / 80° / 85° / 85° (U / D / R / L)
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	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 Pentium N4200 Quad Core, up to 2.5GHz	Intel Core i5-6300U 2.4GHz	Intel J1900 Quad-Core 2.0GHz
Chipset	-	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
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	8GB	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L	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)
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	1x RS-232/485, 2x RS232
CAN	-	-	-
Interface USB	2x USB 2.0, 2x USB 3.0	4x USB 3.0	3x 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	3x 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	1x Mini-card socket (Full Size)
Camera	-	-	-
Bluetooth	-	-	-
Audio	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	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)	Windows 10 / 8.1 Industry / 7 Pro / WSTE, Linux (Ubuntu)
Input Voltage Nominal	-	-	12VDC
Input Voltage Min/Max	100 to 240VACDC	9 to 36VDC	-
Output Voltage Nominal	12VDC	-	-
Output Voltage Min/Max	-	-	-
Input Current	16W	-	-
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 back housing	Front panel compliant with IP65	Front panel compliant with IP65
Certification	-	CE, Class A FCC	CE, Class A FCC
Dimensions	389,3 x 246,8 x 49,3 mm (L x W x H)	404 x 255 x 56,3 mm (W x H x D)	404 x 255 x 49,2 mm (W x H x D)
Weight	4,2 Kg	Tbd.	4,6 Kg
Material	Silicone edge, aluminum 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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**15,6" Fanless Touch Panel-PC Front
IP65 Typ 2**



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



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

Bestellinformation

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. 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

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17" Fanless Touch Panel PC Front IP65



17" Fanless Touch Panel-PC
w/PCT,IP65



17" Fanless Touch Panel PC Front IP65
Typ 3

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), 1080p (1.920x1.080)	SXGA (1.280x1.024)
Display Colors	-	16,7M	16,7M
Brightness	380 cd/m²	250 cd/m²	350 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-reflective (chemically etched)	-
Strengthened Glass	-	7H - Glass hardening: Chemically hardened	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	x	-
MTBF	-	30.000 h	-
TouchScreen	5-wire resistive	PCT 10-point Multi-Touch	5-wire resistive
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	VESA 100 VESA	VESA, Stand
CPU	Intel Atom D525 1.8GHz	Allwinner V40 Cortex A7 Quad Core 1GHz	Celeron J1900 Quad Core, up to 2.42GHz
Chipset	Intel ICH8M	Cortex A7	-
Watchdog Timer	-	-	1 to 255 seconds and from 1 to 255 minutes
Basic Equipment	-	2GB	4GB
Maximum Equipment	2GB	-	8GB
SDRAM	-	-	-
DIMM / MemorySocket	-	DDR3	DDR3L SO-DIMM
Compact Flash	1x	8GB EMMC Flash	x
SD	-	2x SD card	-
HD SATA	-	-	optional 1x 2.5" SATA HDD or 1x SATA DOM
Internal Storage	-	-	-
Graphic Interface	-	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS	-
Interface COM	1x Optional, 2x RS232/422/485	-	2x RS232/422/485 w/ 2.5kv isolated
CAN	Optional	1x	-
Interface USB	4x USB 2.0	1x USB OTG USB, 4x USB 2.0	2x USB 2.0, 1x USB 3.0
Interface LAN	2x 10/100/1000 BASE-T	1x 10/100 BASE-T, WLAN	2x RJ45 10/100/1000 BASE-T
Interface IO	Optional GPIO	4x GPIO	-
Mini PCIe	2x	1x	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	Line-Out	Audio-In, Audio-Out, Line-In, Line-Out	1x Line-Out
Speakers	-	1x amplifier for 2x 6W speakers	-
RFID	-	-	-
SIM Card	-	2x SIM card slot	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	-	2x Mini PCIe
Operating System	-	Android 6.0	-
Operating System Support	-	-	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 30VDC	100 to 240VACDC	12 to 30VDC
Output Voltage Nominal	-	8-18VDC	-
Output Voltage Min/Max	-	-	-
Input Current	-	16W	60W
Operating Temperature	-5°C to 50°C	-10°C to 60°C	-5°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%	10% to 90%, non-condensing
Protection	IP65 front	IP rating: IP65 front housing / IP40 back housing	IP65 front, Shock & Vibration
Certification	-	-	CE, FCC
Dimensions	410,4 x 340,4 x 75,79 mm	393 x 340 x 44 mm (L x W x H)	410,4 x 340,4 x 65,9 mm
Weight	6,3kg	5,1 Kg	6,7 kg
Material	ABS+PC Plastic	Silicone rim, ABS plastic Back casing	-
Typ. Application	Industrial	Industrial, Marine, Digital Signage, Outdoor	Industrial

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17" Fanless Touch Panel PC Front IP65



**17" Fanless Touch Panel-PC
w/PCT,IP65**



**17" Fanless Touch Panel PC Front IP65
Typ 3**

Bestellinformation			
	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	Artikel-Nr. PKPX8295 17" Fanless Touch Panel-PC w/PCT,IP65,2GB DDR3, Allwinner® V40 Cortex A7 QC,250cd/m²,HDMI,Android	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

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



17" Fanless Touch Panel-PC Front IP65 Typ 6



17" Fanless Touch Panel-PC Front IP65 Typ 7

LCD Size	17"	17"	17"
Active Area	-	337,9 x 270,4 mm	337,9 x 270,4 mm
Pixel Pitch	-	-	-
Aspect Ratio	-	5:4	5:4
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	350 cd/m²	250 cd/m²	250 cd/m²
Contrast Ratio	-	1.000:1	1.000:1
Response Time	-	3,8 ms / 1,2 ms (Tr / Tf)	3,8 ms / 1,2 ms (Tr / Tf)
Viewing Angle	85° / 85° / 80° / 80° (U / D / R / L)	170° / 160° (H / V)	170° / 160° (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	-	30.000 h	30.000 h
TouchScreen	Resistive TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA	100 x 100 mm VESA, Metal stand (included) Stand	100 x 100 mm VESA
CPU	Intel Core i5-6300U 2.4GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	-	-
Watchdog Timer	1 to 255 levels reset	-	-
Basic Equipment	4GB	4GB	8GB
Maximum Equipment	-	8GB	16GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR4 SO-DIMM RAM	DDR3L	DDR4
Compact Flash	-	-	-
SD	2x outside-accessible 2,5" drive bay (default)	-	-
HD SATA	1x mSATA	-	-
Internal Storage	-	128GB Industrial SSD	128GB Industrial SSD
Graphic Interface	1x HDMI	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	3x RS232/422/485	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	4x USB 3.0
Interface LAN	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T, WLAN
Interface IO	4x (optional) Digital Input, 4x (optional) Digital Output	GPIO, Digital Input, Digital Output	GPIO, Digital Input, Digital Output
Mini PCIe	2x	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line Out, 1x MIC In (optional)	1x MIC-In	1x MIC-In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector
Operating System	-	Linux Ubuntu (preinstalled)	Linux Ubuntu
Operating System Support	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Linux Ubuntu + Windows 10	Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	17W	37W
Operating Temperature	-20°C to 55°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-30°C to 70°C	-	-
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10% to 90%	10% to 90%
Protection	Front panel compliant with IP65	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing
Certification	CE, Class A FCC	-	-
Dimensions	470 x 295 x 56,2 mm (W x H x D)	393 x 340 x 60 mm (L x W x H)	393 x 333 x 70 mm (L x W x H)
Weight	Tbd.	4,05 Kg	4,05 Kg
Material	Aluminum front bezel and SGCC steel chassis	Rubber front case, Aluminum IPC back case	Silicone edge, aluminum IPC back housing
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

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



17" Fanless Touch Panel-PC Front IP65 Typ 6



17" Fanless Touch Panel-PC Front IP65 Typ 7

Bestellinformation

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

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. 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

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



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



18,5" True Flat Touch Panel PC

	18,5"	18,5"	18,5"
LCD Size	18,5"	18,5"	18,5"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	CCFL Backlight
Display Resolution	WXGA (1.366x768)	WXGA (1.366x768)	WXGA (1.366x768)
Display Colors	16,7M	16,7M	-
Brightness	300cd/m²	300cd/m²	250 cd/m³
Contrast Ratio	-	-	-
Response Time	-	-	-
Viewing Angle	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 J1900 Quad-Core 2.0GHz	Intel Celeron J1900, 4C, 2.0GHz, 2MB Cache
Chipset	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	2x Intel i210AT GbE, 1x Intel 8111E GbE	NP-BYT0-A / NC-DK0-A
Watchdog Timer	1 to 255 levels reset	1 to 255 levels reset	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	-	8GB	8GB
SDRAM	-	1.333 MHz 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	-	1x 2,5" SATA HDD 320GB 5.400rpm
Internal Storage	-	-	-
Graphic Interface	1x HDMI	-	-
Interface COM	3x RS232/422/485	1x RS-232/485, 2x RS232	3x RS232
CAN	-	-	-
Interface USB	4x USB 3.0	3x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x 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	1x 10/100/1000 BASE-T
Interface IO	4x (optional) Digital Input, 4x (optional) Digital Output	-	-
Mini PCIe	2x	1x Mini-card socket (Full Size)	1x Full size & 1x Half size
Camera	-	-	2MP front webcam with autofocus
Bluetooth	-	-	-
Audio	1x Line Out, 1x MIC In (optional)	-	Line-Out / Mic-in
Speakers	-	2x 2W speakers (optional)	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
Operating System	-	-	Windows 8, WES 8, POS Ready 7, Win 7 Pro, WES 7, Fedora 17, TIZEN
Operating System Support	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)	-
Input Voltage Nominal	-	12VDC	24VDC / 5.0A
Input Voltage Min/Max	9 to 36VDC	-	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	120W
Operating Temperature	-20°C to 55°C	-20°C to 55°C	0°C to 40°C
Storage Temperature	-30°C to 70°C	-30°C to 70°C	-20°C to 60°C
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)	20% to 80%, non-condensing
Protection	Front panel compliant with IP65	Front panel compliant with IP65	-
Certification	CE, Class A FCC	CE, Class A FCC	CE, FCC
Dimensions	470 x 295 x 56,2 mm (W x H x D)	470 x 295 x 49,2 mm (W x H x D)	461,6 x 309,8 x 64,5 mm (W x H x D)
Weight	Tbd.	5,7 Kg	9 kg (net)
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	Industrial, Medical

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



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



18,5" True Flat Touch Panel PC

Bestellinformation

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

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

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19" Fanless Touch Panel PC Front IP65 Typ 2



19" Fanless Touch Panel-PC Front IP65 Typ 3



19" Fanless Touch Panel-PC Front IP65 Typ 4

LCD Size	19"	19"	19"
Active Area	-	379,3 x 304,1 mm	379,3 x 304,1 mm
Pixel Pitch	-	-	-
Aspect Ratio	4:3	5:4	5:4
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	350 cd/m²	250 cd/m²	250 cd/m²
Contrast Ratio	1.000:1	1.000:1	1.000:1
Response Time	-	1,5 ms / 3,5 ms (Tr / Tf)	1,5 ms / 3,5 ms (Tr / Tf)
Viewing Angle	80°/80°/85°/85° (U/D/L/R)	170° / 160° (H / V)	170° / 160° (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	-	40.000 h	40.000 h
TouchScreen	5-wire resistive	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	VESA, Stand	100 x 100 mm VESA, Metal stand (included) Stand	100 x 100 mm VESA
CPU	Celeron J1900 Quad Core, up to 2.42GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset	-	-	-
Watchdog Timer	1 to 255 seconds and from 1 to 255 minutes	-	-
Basic Equipment	4GB	4GB	8GB
Maximum Equipment	8GB	8GB	16GB
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L	DDR4
Compact Flash	x	-	-
SD	-	-	-
HD SATA	optional 1x 2.5" SATA HDD or 1x SATA DOM	-	-
Internal Storage	-	128GB Industrial SSD	128GB Industrial SSD
Graphic Interface	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	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	1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN
CAN	-	-	-
Interface USB	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x USB 3.0	4x USB 3.0
Interface LAN	2x RJ45 10/100/1000 BASE-T	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	2x	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x Line-Out	1x MIC-In	1x MIC-In
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	2x Mini PCIe	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector
Operating System	-	Linux Ubuntu (preinstalled)	Linux Ubuntu
Operating System Support	Windows 8 / 7 / WinCE 7.0 (32-bit/64-bit)	Linux Ubuntu + Windows 10	Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	12 to 30VDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	60W	Tbd.	48W
Operating Temperature	-5°C to 50°C	-10°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%	10% to 90%
Protection	IP65 front, Shock & Vibration	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing
Certification	CE, FCC	-	-
Dimensions	457,64 x 379,24 x 61,25 mm	364,5 x 431,5 x 59 mm (H x W x L)	431,5 x 364,5 x 69 mm (L x W x H)
Weight	6,7 kg	5 Kg	5 Kg
Material	-	Rubber front case, Aluminum IPC back case	Silicone edge, aluminum IPC back housing
Typ. Application	Industrial	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

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



**19" Fanless Touch Panel-PC Front IP65
Typ 3**



**19" Fanless Touch Panel-PC Front IP65
Typ 4**

Bestellinformation

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. 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

Artikel-Nr. PKPX8241
19" Fanless Touch Panel-PC Type 4 w/ PCT,
SXGA, 8GB DDR4, Intel® Core i5-7300U,
250cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

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



**21,5" Fanless Touch Panel-PC Front
IP65 Typ 7**



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

LCD Size	21,5"	21,5"	21,5"
Active Area	477 x 268 mm	477 x 268 mm	-
Pixel Pitch	-	-	0,24825 x 0,24825 mm (H x V)
Aspect Ratio	16:9	16:9	-
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	250 cd/m²	250 cd/m²	1.600 cd/m² (250 cd/m² optional)
Contrast Ratio	1.000:1	1.000:1	900:1
Response Time	1,5 ms / 3,5 ms (Tr / Tf)	1,5 ms / 3,5 ms (Tr / Tf)	-
Viewing Angle	170° / 160° (H / V)	170° / 160° (H / V)	170° / 160° (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	40.000 h	40.000 h	100.000 hrs
TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch	Projected capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	100 x 100 mm VESA, Metal stand (included) Stand	100 x 100 mm VESA, Metal stand (included) Stand	100 x 100 mm VESA
CPU	Intel Core i5-7300U Kaby Lake, Dual Core 2.6GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz	7th Gen. Intel Core i7/i5/i3 or Intel Celeron G3930TE
Chipset	Fintek F81866D	-	Intel® H110 PCH, Kabylake
Watchdog Timer	-	-	Programmable 1 to 255 sec.
Basic Equipment	8GB	4GB	4GB
Maximum Equipment	16GB	8GB	32GB
SDRAM	-	-	260-pin DDR4 2.133MHz
DIMM / MemorySocket	DDR4	DDR3L	-
Compact Flash	-	-	-
SD	-	-	-
HD SATA	-	-	64GB mSATA
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	-
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	2x RS232
CAN	-	-	-
Interface USB	2x USB 2.0, 2x USB 3.0	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, WLAN	2x M12 10/100/1000 BASE-T
Interface IO	GPIO, Digital Input, Digital Output	GPIO, Digital Input, Digital Output	-
Mini PCIe	1x	-	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	1x MIC-In	1x MIC-In	-
Speakers	-	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector	-
Operating System	Linux Ubuntu (preinstalled)	Linux Ubuntu (preinstalled)	-
Operating System Support	Linux Ubuntu + Windows 10	Linux Ubuntu + Windows 10	Windows 10, Linux
Input Voltage Nominal	-	-	12VDC
Input Voltage Min/Max	100 to 240VACDC	100 to 240VACDC	9 to 36V (optional)
Output Voltage Nominal	12VDC	12VDC	-
Output Voltage Min/Max	-	-	-
Input Current	42W	24W	-
Operating Temperature	-10°C to 60°C	-10°C to 60°C	0°C to 50°C
Storage Temperature	-	-	-20°C to 60°C
Relative Humidity	10% to 90%	10% to 90%	0 to 90% (non-condensing)
Protection	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing	Full IP68 waterproof
Certification	-	-	-
Dimensions	532 x 331 x 71 mm (L x W x H)	532 x 331 x 62 mm (L x W x H)	544 x 43,5 x 335,5 mm (W x D x H)
Weight	5,2 Kg	6,8 Kg	7,7 kg
Material	Aluminum	Rubber front case, Aluminum IPC back case	Aluminum extrusion and heavy-duty steel
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Outdoor

Selection Guide Industrial Panel PC



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



**21,5" Fanless Touch Panel-PC Front
IP65 Typ 7**



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

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

21,5" Fanless Touch Panel-PC Front IP65 Typ 7
w/ PCT, 4GB DDR3L, Intel® Pentium® N4200,
FHD, 250cd/m², HDMI+DP, IP65 front, Linux
Ubuntu, Optical Bonding

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

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



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



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

LCD Size	21,5"	21,5"	21,5"
Active Area	-	-	-
Pixel Pitch	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)	250cd/m ²	250cd/m ²
Contrast Ratio	900:1	-	-
Response Time	-	-	-
Viewing Angle	170° / 160° (H / V)	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	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	6th Gen. Intel Core i7/i5/i3 or Intel Celeron 3955U	Intel Core i5-6300U 2.4GHz	Intel Core i5-6300U 2.4GHz
Chipset	Intel® Skylake-U integrated	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe	1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe
Watchdog Timer	Programmable 1 to 255 sec.	1 to 255 levels reset	1 to 255 levels reset
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	16GB	-	-
SDRAM	260-pin DDR4 2.133MHz	-	-
DIMM / MemorySocket	-	DDR4 SO-DIMM RAM	DDR4 SO-DIMM RAM
Compact Flash	-	-	-
SD	-	2x outside-accessible 2,5" drive bay (default)	2x outside-accessible 2,5" drive bay (default)
HD SATA	64GB mSATA	1x mSATA	1x mSATA
Internal Storage	-	-	-
Graphic Interface	-	1x (optional) HDMI	1x HDMI
Interface COM	2x RS232	3x RS232/422/485	3x RS232/422/485
CAN	-	-	-
Interface USB	2x USB 2.0	4x USB 3.0	4x USB 3.0
Interface LAN	2x M12 10/100/1000 BASE-T	2x RJ-45 10/100/1000 BASE-T, Optional WLAN	2x 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	2x
Camera	-	-	-
Bluetooth	-	-	-
Audio	-	1x Line Out, 1x MIC In (optional)	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 / 8.1 / 7, Linux	Windows 10 / 8.1 / 7, Linux (Ubuntu)	Windows 10 / 8.1 / 7, Linux (Ubuntu)
Input Voltage Nominal	12VDC	-	-
Input Voltage Min/Max	9 to 36V (optional)	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	0°C to 50°C	-10°C to 50°C	-20°C to 55°C
Storage Temperature	-20°C to 80°C	-20°C to 60°C	-30°C to 70°C
Relative Humidity	0 to 90% (non-condensing)	10 to 95% RH @ 50°C (non-condensing)	10 to 95% RH @ 55°C (non-condensing)
Protection	Full IP68 waterproof	Full IP65 stainless steel chassis w/ waterproof connectors	Front panel compliant with IP65
Certification	-	CE, Class A FCC	CE, Class A FCC
Dimensions	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)	536 x 332 x 55,5 mm (W x H x D)
Weight	7,7 kg	11,56 kg	Tbd.
Material	Aluminum extrusion and heavy-duty steel	Stainless steel chassis	Aluminum front bezel and SGCC steel chassis
Typ. Application	Industrial, Marine, Outdoor	Industrial, Medical, Digital Signage	Industrial, Medical, Digital Signage

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



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



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

Bestellinformation

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

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

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



27" Fanless Touch Panel-PC Front IP65



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

LCD Size	21,5"	27"	27"
Active Area	-	597,6 x 336,2 mm	597,6 x 336,2 mm
Pixel Pitch	-	-	-
Aspect Ratio	-	16:9	16:9
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/m²	300 cd/m²	300 cd/m²
Contrast Ratio	-	3.000:1	3.000:1
Response Time	-	7 ms / 5 ms (Tr / Tf)	7 ms / 5 ms (Tr / Tf)
Viewing Angle	80° / 80° / 85° / 85° (U / D / R / L)	178° / 178° (H / V)	178° / 178° (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	-	30.000 h	30.000 h
TouchScreen	Projected Capacitive TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
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 J1900 Quad-Core 2.0GHz	Intel Pentium N4200 Quad Core, up to 2.5GHz	Intel Core i5-7300U Kaby Lake U, Dual Core 2.6 GHz (up to 3.5 GHz)
Chipset	2x Intel® i210AT GbE, 1x Intel® 8111E GbE	-	-
Watchdog Timer	1 to 255 levels reset	-	-
Basic Equipment	4GB	4GB	8GB
Maximum Equipment	8GB	8GB	16GB
SDRAM	1.066 / 1.333 MHz SDRAM	-	-
DIMM / MemorySocket	DDR3L SO-DIMM RAM	DDR3L	DDR4
Compact Flash	-	-	-
SD	2x outside-accessible 2,5" drive bay (default)	-	-
HD SATA	-	-	-
Internal Storage	-	128GB Industrial SSD	128GB Industrial SSD
Graphic Interface	-	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort
Interface COM	1x RS-232/485, 2x RS232	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	3x USB 2.0, 1x USB 3.0	2x USB 2.0, 2x USB 3.0	4x USB 3.0
Interface LAN	3x RJ-45 10/100/1000 BASE-T, Optional WLAN	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	1x Mini-card socket (Full Size)	-	-
Camera	-	-	-
Bluetooth	-	-	-
Audio	-	1x MIC-In	1x MIC-In
Speakers	2x 2W speakers (optional)	-	-
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCIe	-	1x PCIe1 Straddle Connector	1x PCIe1 Straddle Connector
Operating System	-	Linux Ubuntu	Linux Ubuntu
Operating System Support	Windows 10 / 8.1 Industry / 7 Pro / WS7E, Linux (Ubuntu)	Windows 10, Linux (32-bit / 64-bit)	Windows 10, Linux (32-bit / 64-bit)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	-	12VDC	12VDC
Output Voltage Min/Max	-	-	-
Input Current	-	42W	74W
Operating Temperature	-20°C to 55°C	-10°C to 60°C	-10°C to 60°C
Storage Temperature	-30°C to 70°C	-	-
Relative Humidity	10 to 95% RH @ 55°C (non-condensing)	10% to 90%	10% to 90%
Protection	Front panel compliant with IP65	IP65 front housing, IP40 back housing	IP65 front housing, IP40 back housing
Certification	CE, Class A FCC	-	-
Dimensions	536 x 332 x 48,4 mm (W x H x D)	663 x 405 x 62 mm (L x W x H)	663 x 405 x 62 mm (L x W x H)
Weight	7 Kg	8 Kg	8 Kg
Material	Aluminum front bezel and SECC steel chassis	Silicone edge, aluminum IPC back housing	Silicone edge, aluminum IPC back housing
Typ. Application	Industrial, Medical, Digital Signage	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC

**21,5" Fanless Touch HMI Panel-PC
Front IP65 Typ 4****27" Fanless Touch Panel-PC Front IP65
Typ 1****27" Fanless Touch Panel-PC Front IP65
Typ 2**

Bestellinformation

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

Artikel-Nr. PKPX8250

27" Fanless Touch Panel-PC Type 1 w/ PCT, FHD,
4GB DDR3L, Intel® Pentium® N4200, 300cd/m²,
HDMI+DP, IP65 front, Linux Ubuntu, Optical
Bonding

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

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Industrial Panel PC
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Selection Guide Industrial Panel PC



**31,5" Fanless Touch Panel-PC Front
IP65**



**32" Fanless Touch Panel-PC w/PCT,
IP65**

LCD Size	31,5"	32"
Active Area	698,4 x 392,9 mm	698,4 x 392,9 mm
Pixel Pitch	-	-
Aspect Ratio	16:9	16:9
Display Backlight	LED Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)	1080p (1.920x1.080)
Display Colors	16,7M	16,7M
Brightness	350 cd/m²	350 cd/m²
Contrast Ratio	3.000:1	3.000:1
Response Time	6 ms / 1 ms (Tr / Tf)	6 ms / 1 ms (Tr / Tf)
Viewing Angle	178° / 178° (H / V)	178° / 178° (H / V)
Anti Reflection Glass	Anti-glare treatment (chemical etching)	Anti-reflective (chemically etched)
Strengthened Glass	7H	7H - Glass hardening: Chemically hardened
Sunlight Readable	-	-
Gapless Optical Bonding	-	x
MTBF	30.000 h	30.000 h
TouchScreen	PCT 10-point Multi-Touch	PCT 10-point Multi-Touch
Keypad	-	-
Cooling System	Fanless	Fanless
Mounting System	100 x 100 mm VESA	VESA 100 VESA
CPU	Intel Pentium N4200 Quad Core, up to 2.5GHz	Allwinner V40 Cortex A7 Quad Core 1GHz
Chipset	-	Cortex A7
Watchdog Timer	-	-
Basic Equipment	4GB	2GB
Maximum Equipment	8GB	-
SDRAM	-	-
DIMM / MemorySocket	DDR3L	DDR3
Compact Flash	-	8GB EMMC Flash
SD	-	2x SD card
HD SATA	-	-
Internal Storage	128GB Industrial SSD	-
Graphic Interface	Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort	ARM® Mali400 Mp2 Graphics Adapter, 1x HDMI, LCD-LVDS
Interface COM	1x RS232/485, full-PIN	-
CAN	-	1x
Interface USB	2x USB 2.0, 2x USB 3.0	1x USB OTG USB, 4x USB 2.0
Interface LAN	2x 10/100/1000 BASE-T, WLAN	1x 10/100 BASE-T, WLAN
Interface IO	GPIO, Digital Input, Digital Output	4x GPIO
Mini PCIe	-	1x
Camera	-	-
Bluetooth	-	-
Audio	1x MIC-In	Audio-In, Audio-Out, Line-In, Line-Out
Speakers	-	1x amplifier for 2x 6W speakers
RFID	-	-
SIM Card	-	2x SIM card slot
GPS	-	-
Mobile Communication 2G	-	-
Mobile Communication 3G	-	-
PCIe	1x PCIe1 Straddle Connector	-
Operating System	Linux Ubuntu	Android 6.0
Operating System Support	Windows 10, Linux (32-bit / 64-bit)	-
Input Voltage Nominal	-	-
Input Voltage Min/Max	100 to 240VACDC	100 to 240VACDC
Output Voltage Nominal	24VDC	24VDC
Output Voltage Min/Max	-	-
Input Current	75W	65W
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 back housing	IP rating: IP65 front housing / IP40 back housing
Certification	-	-
Dimensions	768 x 475 x 73,45 (L x W x H)	768 x 475 x 65 mm (L x W x H)
Weight	14,5 Kg	14,5 Kg
Material	Silicone edge, aluminum IPC back housing	Silicone rim, ABS plastic Back casing
Typ. Application	Industrial, Marine, Digital Signage, Outdoor	Industrial, Marine, Digital Signage, Outdoor

Selection Guide Industrial Panel PC



**31,5" Fanless Touch Panel-PC Front
IP65**



**32" Fanless Touch Panel-PC w/PCT,
IP65**

Bestellinformation

Artikel-Nr. PKPX8260
31,5" Fanless Touch Panel-PC Type 1 w/ PCT,
FHD, 4GB DDR3L, Intel® Pentium® N4200,
350cd/m², HDMI+DP, IP65 front, Linux Ubuntu,
Optical Bonding

Artikel-Nr. PKPX8365
32" Fanless Touch Panel-PC w/PCT,IP65,2GB
DDR3, Allwinner® V40 Cortex A7
QC,350cd/m²,HDMI,Android

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