

Selection Guide

ARM-based Panel-PC

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Selection Guide ARM-based Panel-PC



**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/m²	300 to 350 cd/m²	800 cd/m²
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, 4 GB 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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8" Fanless Touch HMI Slim Panel-PC Typ 2



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



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

LCD Size	8"	10,1"	10,1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	WXGA (1.280x800)	WXGA (1.280x800)
Display Colors	-	16,7M	16,7M
Brightness	500 cd/m²	240 to 300 cd/m²	500 cd/m²
Contrast Ratio	700:1 (typ.)	600:1 to 800:1	800:1
Response Time	-	-	-
Viewing Angle	70° / 75° / 75° / 75° (typ.)	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	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	Fanless	Fanless
Mounting System	75 x 75 mm VESA	75 x 75 mm VESA	75 x 75 mm VESA
CPU	ARM Cortex-A35 Quad Core up to 1.5GHz	ARM Cortex A9 1Ghz Quad/Dual Core iMX6	ARM Cortex A9 1Ghz Quad/Dual/Single iMX6
FSB Frequency	-	-	-
Chipset	Rockchip PX30	-	-
Watchdog Timer	-	-	-
Basic Equipment	2GB	1 GB (Dual) / 2 GB (Quad)	1 GB (Dual) / 2 GB (Single/Quad)
Maximum Equipment	-	4GB	4GB
SDRAM	DDR4	DDR3 SDRAM	DDR3 SDRAM
DIMM / MemorySocket	-	-	-
Compact Flash	-	eMMC	eMMC
SD	Micro SD card slot, maximum card 32GB	1x microSD card slot	1x microSD card slot
HD SATA	-	-	-
Internal Storage	16GB eMMC	-	-
Graphic Interface	LCD-LVDS	1x HDMI	1x HDMI
Interface COM	1x RS232 , 1x RS232/422/485	1x RS-232, 1x RS-485	1x RS-232, 1x RS-485
CAN	OBD-II	2x Optional	2x Optional
Interface USB	3x USB 2.0	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	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	(dry contact / galvanically isolated) GPIO, 3x Digital Input, 3x Digital Output	8-bit (+ 8-bit optional) GPIO	8-bit (+ 8-bit optional) GPIO
Mini PCIe	Mini PCIe interface	-	-
Camera	Front: 8.0 MP CMOS MIPI-CSI type AF	-	-
Bluetooth	4.2 low power BLE	-	-
PS/2	-	-	-
Audio	1x built-in microphone	MIC-In	MIC-In
Speakers	1x built-in (1W)	-	-
Headphone	-	x	x
RFID	13,56MHz RFID & NFC reader	-	-
SIM Card	1x nano SIM card	-	-
GPS	optional	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	Optional UMTS
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 8.1 / (Linux Buildroot by request)	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 auto-detection (Ignition detection)	9 to 36V	9 to 36V
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	0°C to 50°C	-20°C to 70°C
Storage Temperature	-20°C to 70°C	-	-
Relative Humidity	5% to 90% RH @ 50°C (non-condensing)	-	-
Protection	-	-	-
Certification	CE, E-Mark e13 (Vehicle), FCC	CE, FCC	CE, FCC
Dimensions	218,16 x 162,67 x 46,5 mm (W x H x D)	265 x 195 x 42 mm (W x H x D)	280 x 250 x 52 mm (W x H x D)
Weight	0,94 Kg	970 g	1.600 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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**8" Fanless Touch HMI Slim Panel-PC
Typ 2**



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



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

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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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



5" Open Frame HMI Panel-PC Typ 1



5" Open Frame HMI Panel-PC Typ 2

LCD Size	10,1"	5"	5"
Active Area	220 x 138 mm	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WVGA (800x480)	WVGA (800x480)
Display Colors	16,7M	16,7 M	16,7 M
Brightness	350 cd/m²	250 cd/m²	850 cd/m²
Contrast Ratio	-	-	600:1
Response Time	-	-	25 ms
Viewing Angle	170°, 170° (H, V)	-	150° / 130° (H / V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	7H hardness
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	20.000 hours	20.000 hours	50.000 hours
TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen	Projected Capacitive TouchScreen
Keypad	-	-	-
Cooling System	Fanless	-	-
Mounting System	75 x 75 mm VESA	Wall Mount	Wall Mount
CPU	ARM Cortex A9 1.0Ghz Dual-Core	High-performance ARM Cortex A9 CPU @ 1Ghz Single Core	High-performance NXP iMX6 ARM Cortex A9 CPU @ 1Ghz, Single Core
FSB Frequency	-	-	-
Chipset	-	-	-
Watchdog Timer	-	-	x
Basic Equipment	1GB	1GB	1GB
Maximum Equipment	4GB	4GB	4GB
SDRAM	DDR3 SDRAM	DDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	x	eMMC	eMMC
SD	1x microSD card slot	1x Micro SD card slot	1x Micro SD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x HDMI	1x HDMI, (require an expansion board) LCD-LVDS	1x HDMI
Interface COM	1x RS-232, 1x RS-232 (optional), 1x RS-485, 1x RS-485 (optional)	1x 1x RS485, 1x 2x RS232 (one as console)	1x 1x RS232, 1x 1x RS485
CAN	Optional	(require an expansion board)	(require an expansion board)
Interface USB	3x USB 2.0	3x USB 2.0	5x USB 2.0
Interface LAN	1x RJ-45 10/100/1000 BASE-T, Optional WLAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	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 Line In, 1x MIC In
Speakers	2x	-	2x
Headphone	x	1x	1x
RFID	-	-	-
SIM Card	-	-	-
GPS	-	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional UMTS	Optional UMTS	Optional UMTS
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 4.2.2 / 4.4.2, (Ubuntu 11.10 optional)	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)
Input Voltage Nominal	-	+5VDC @ 2A	+5VDC
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	0°C to 50°C	-20°C to 70°C
Storage Temperature	-20°C to 60°C	-	-30°C to 80°C
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	195 x 265 x 43 mm	92 x 139 x 29 mm	162 x 94 x 36 mm
Weight	1 Kg	240 g	310 g
Material	Light weight aluminum enclosure	-	-
Typ. Application	Industrial, Automotive, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

Selection Guide ARM-based Panel-PC



10,1" Panel-Mount HMI Panel-PC



5" Open Frame HMI Panel-PC Typ 1



5" Open Frame HMI 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. 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

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Selection Guide ARM-based Panel-PC



5" Open Frame HMI Panel-PC Type 4



7" Open Frame HMI Panel-PC Typ 5



7" Open Frame HMI Panel-PC Typ 1

LCD Size	5"	7"	7"
Active Area	108 x 64,8 mm (H x V)	154x86 mm	-
Pixel Pitch	-	-	-
Aspect Ratio	5:3	16:9	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WVGA (800x480)	WSVGA (1.024x600)	WVGA (800x480)
Display Colors	16,7 M	-	262K
Brightness	350 cd/m²	1.300 cd/m²	300 cd/m²
Contrast Ratio	500:1	Tbd.	-
Response Time	-	-	-
Viewing Angle	140° / 120° (H / V)	170°C/170°C	140°, 130° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	7H hardness	x	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	15.000 hours	70.000 h	20.000 hours
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	ARM Cortex A35 Quad Core CPU up to 1.3Ghz	Rockchip PX30K (64-bit Quad-core ARM Cortex-A35 @ 1.6Ghz)	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer
FSB Frequency	-	-	-
Chipset	Rockchip PX30K	Rockchip PX30K	-
Watchdog Timer	x	x	-
Basic Equipment	2GB	2GB	1 GB (Dual) or 2 GB (Quad)
Maximum Equipment	-	-	4GB
SDRAM	LPDDR3	LPDDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	8GB eMMC	8GB eMMC flash	eMMC
SD	-	1x microSD card slot	1x Micro SD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	-	1x DisplayPort	1x HDMI
Interface COM	2x RS232 (or RS485)	2x RS232 (or RS485)	1x 1x RS232 (as console), 1x 1x RS485
CAN	-	-	Optional
Interface USB	5x (+ 1x USB 2.0 OTG) USB 2.0	5x USB2.0 Host, 1x USB2.0 OTG USB 2.0	3x USB 2.0
Interface LAN	1x (+ 1x LAN2 optional) 10/100 BASE-T, optional WLAN, optional PoE	1x 10/100/1000 BASE-T, optional WLAN	1x 10/100/1000 BASE-T
Interface IO	8-bit GPIO GPIO	8-bit GPIO GPIO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	Optional	Optional	-
PS/2	-	-	-
Audio	1x MIC In	1x MIC In + 1x Line 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
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 9.x / Ubuntu 18	Android / Ubuntu / Debian	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	12VDC	12VDC	+12VDC @ 2A
Input Voltage Min/Max	9 to 36VDC IN (optional)	option external 9V-36V converter board	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	0°C to 70°C	-20°C to 70°C
Storage Temperature	-30°C to 80°C	-20°C to 70°C	-
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	141 x 110 x 42 mm	183x136x54 mm	126 x 182 x 26 mm
Weight	Tbd.	Tbd.	375 g
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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Selection Guide ARM-based Panel-PC



5" Open Frame HMI Panel-PC Type 4



7" Open Frame HMI Panel-PC Typ 5



7" Open Frame HMI Panel-PC Typ 1

Bestellinformation

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

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

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Selection Guide ARM-based Panel-PC



7" Open Frame HMI Panel-PC Typ 2



7" Open Frame HMI Panel-PC Typ 3



7" Open Frame HMI Panel-PC Type 4

LCD Size	7"	7"	7"
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)	WSVGA (1.024x600)	WVGA (800x480)
Display Colors	16,7M	16,7M	16,7 M
Brightness	800 cd/m²	1.300 cd/m²	250 cd/m²
Contrast Ratio	560:1	600:1	500:1
Response Time	-	25 ms	-
Viewing Angle	150°, 145° (H, V)	170°, 170° (H, V)	140° / 120° (H / V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	7H hardness	6H hardness
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	50.000 hours	70.000 hours	10.000 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- / Dual- / Quad-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	1 GB (Single/Dual) or 2 GB (Quad)	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	-
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, Optional WLAN	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 / 6.0 (and later), 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	125,5 x 182 x 28 mm	207 x 117 x 38 mm	167 x 126 x 45 mm
Weight	547,6 g	515 g	Tbd.
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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7" Open Frame HMI Panel-PC Typ 2



7" Open Frame HMI Panel-PC Typ 3



7" Open Frame HMI Panel-PC Type 4

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

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Selection Guide ARM-based Panel-PC



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

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

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

LCD Size	10,1"	10,1"	10,1"
Active Area	-	-	-
Pixel Pitch	-	-	-
Aspect Ratio	-	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WXGA (1.280x800)	WXGA (1.280x800)	WXGA (1.280x800)
Display Colors	16,7M	16,7M	16,7M
Brightness	300 cd/m²	500 cd/m²	1.000 cd/m²
Contrast Ratio	-	800:1	800:1
Response Time	-	-	25 ms
Viewing Angle	170°, 170° (H, V)	160°, 160° (H, V)	170°, 170° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	-	-	7H hardness
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	15.000 hours	50.000 hours	70.000 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 Dual- / Quad-Core computer	High-performance ARM Cortex A9 CPU @ 1Ghz Single-Core computer	High-performance NXP iMX6 ARM Cortex A9 processor @ 1Ghz, Quad / Dual / Single Core
FSB Frequency	-	-	-
Chipset	-	-	-
Watchdog Timer	-	-	x
Basic Equipment	1 GB (Dual) or 2 GB (Quad)	1GB	1GB / 2GB
Maximum Equipment	4GB	4GB	4GB
SDRAM	DDR3	DDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	eMMC	eMMC	eMMC
SD	1x Micro SD card slot	1x Micro SD card slot	1x microSD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	1x HDMI	1x HDMI	1x HDMI
Interface COM	1x 1x RS485, 1x 2x RS232 (one as console)	1x 1x RS232, 1x 1x RS485	1x 1x RS232, 1x 1x RS485
CAN	Optional	Optional	2x optional
Interface USB	3x USB 2.0	3x USB 2.0	5x USB 2.0
Interface LAN	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T	1x 10/100/1000 BASE-T, Optional WLAN
Interface IO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO (optional 16-bit) GPIO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	-	-	Optional
PS/2	-	-	-
Audio	1x Line In, 1x MIC 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	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)	Android 4.4 / 6.x, Linux 4.x / Yocto 1.6 (and later)
Input Voltage Nominal	+12VDC @ 2A	-	-
Input Voltage Min/Max	-	+9 to +36VDC	+9 to +36VDC
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
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	183 x 268 x 33 mm	183 x 268 x 38 mm	270 x 164 x 38 mm
Weight	750 g	1,0832 Kg	820 g
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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Selection Guide ARM-based Panel-PC



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



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



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

Bestellinformation			
Artikel-Nr. PKPX4400	Artikel-Nr. PKPX4407	Artikel-Nr. PKPX4410	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Android	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	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. PKPX4400-1	Artikel-Nr. PKPX4407-1	Artikel-Nr. PKPX4410-1	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Ubuntu	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	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. PKPX4400-4	Artikel-Nr. PKPX4408	Artikel-Nr. PKPX4411	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6D, 1GHz Dualcore, 1GB DDR3, 4GB NAND, Yocto	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	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. PKPX4400-5	Artikel-Nr. PKPX4408-1	Artikel-Nr. PKPX4411-1	
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	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	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. PKPX4400-6	Artikel-Nr. PKPX4409	Artikel-Nr. PKPX4412	
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	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	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. PKPX4406	Artikel-Nr. PKPX4409-1	Artikel-Nr. PKPX4412-1	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Android	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	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. PKPX4406-1		Artikel-Nr. PKPX4413	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Ubuntu		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. PKPX4406-2		Artikel-Nr. PKPX4413-1	
10,1" Open Frame HMI Panel-PC, 1.280x800 300cd/m², Projected Capacitive TouchScreen, iMX 6Q, 1GHz QuadCore, 2GB DDR3, 4GB NAND, Yocto		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. PKPX4406-3		Artikel-Nr. PKPX4414	
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		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. PKPX4406-4		Artikel-Nr. PKPX4414-1	
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		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. PKPX4406-5		Artikel-Nr. PKPX4415	
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		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	

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

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

15" Open Frame HMI Panel-PC Typ 1

LCD Size	10,1"	11,6"	15"
Active Area	154,08 x 85,92 mm (H x V)	-	-
Pixel Pitch	-	-	-
Aspect Ratio	5:3	16:9	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	WSVGA (1.024x600)	WSVGA (1.024x600)	XGA (1.024x768)
Display Colors	16,7 M	262K	16,7M
Brightness	400 cd/m² (optional 1.000 cd/m²)	250 cd/m²	300 cd/m²
Contrast Ratio	800:1	Tbd.	-
Response Time	-	-	-
Viewing Angle	170° / 170° (H / V)	Tbd.	140°, 120° (H, V)
Anti Reflection Glass	-	-	-
Strengthened Glass	6H hardness	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	30.000 hours	-	30.000 hours
TouchScreen	Projected Capacitive TouchScreen	Projected Capacitive TouchScreen	4-wire resistive TouchScreen
Keypad	-	-	-
Cooling System	-	-	-
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	ARM Cortex A35 Quad Core CPU up to 1.3Ghz	2x ARM Cortex A72 & 4x ARM Cortex A53 processor, 2GHz	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer
FSB Frequency	-	-	-
Chipset	Rockchip PX30K	Rockchip RK3399	-
Watchdog Timer	x	x	-
Basic Equipment	2GB	2GB	1GB (Dual) or 2GB (Quad)
Maximum Equipment	-	-	4GB
SDRAM	LPDDR3	DDR3	DDR3
DIMM / MemorySocket	-	-	-
Compact Flash	8GB eMMC	8GB eMMC	eMMC
SD	-	1x microSD card slot	1x Micro SD card slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	-	1x DisplayPort	1x HDMI
Interface COM	2x RS232 (or RS485)	4x 232/422/485 (optional)	1x 1x RS232 (as console), 1x 1x RS485
CAN	-	-	Optional
Interface USB	5x (+ 1x USB 2.0 OTG) USB 2.0	2x USB 2.0, 2x (+ 1x USB 3.0 OTG) USB 3.0	3x USB 2.0
Interface LAN	1x (+ 1x LAN2 optional) 10/100 BASE-T, optional WLAN, optional PoE	1x 10/100/1000 BASE-T, optional WLAN	1x 10/100/1000 BASE-T
Interface IO	8-bit GPIO GPIO	8-bit GPIO GPIO	8-bit GPIO (optional 16-bit) GPIO
Mini PCIe	-	-	-
Camera	-	-	-
Bluetooth	Optional	Optional	-
PS/2	-	-	-
Audio	1x MIC In	1x MIC In + 1x Line 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
PCIe	-	-	-
Operating System	-	-	-
Operating System Support	Android 9.x / Ubuntu 18	Android / Ubuntu / Debian	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)
Input Voltage Nominal	12VDC	12VDC / 24VDC	+12VDC @ 2A
Input Voltage Min/Max	9 to 36VDC IN (optional)	-	-
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	Tbd.	-20°C to 70°C
Storage Temperature	-30°C to 80°C	-	-
Relative Humidity	-	-	-
Protection	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Dimensions	237 x 167 x 50 mm	Tbd.	tbd.
Weight	Tbd.	Tbd.	tbd.
Material	-	-	-
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Industrial, Digital Signage

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Selection Guide ARM-based Panel-PC



10,1" Open Frame HMI Panel-PC Type 4 11,6" Open Frame HMI Panel-PC Type 1 15" Open Frame HMI Panel-PC Typ 1

Bestellinformation			
	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	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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Selection Guide ARM-based Panel-PC



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



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



Vehicle Mount Computer 110/111

	15,6"	21,5"	7"
LCD Size	15,6"	21,5"	7"
Active Area	344,16 x 193,59 mm	-	-
Pixel Pitch	0,17925 (W) x 0,17925 (H) mm	-	-
Aspect Ratio	16:9	-	-
Display Backlight	LED Backlight	LED Backlight	LED Backlight
Display Resolution	1080p (1.920x1.080)	1080p (1.920x1.080)	WSVGA (1.024x600)
Display Colors	16.7M	16,7M	-
Brightness	1.300 cd/m²	300 cd/m²	500 cd/m²
Contrast Ratio	1.000:1	-	800:1
Response Time	-	-	-
Viewing Angle	Free direction	120°, 100° (H, V)	-
Anti Reflection Glass	-	-	-
Strengthened Glass	x	-	-
Sunlight Readable	-	-	-
Gapless Optical Bonding	-	-	-
MTBF	-	30.000 hours	-
TouchScreen	Projected Capacitive TouchScreen	Infrared (IR) TouchScreen	5-wire resistant touch
Keypad	-	-	-
Cooling System	-	-	Fanless
Mounting System	Wall Mount	Wall Mount	VESA 75 / 100 VESA, Stand
CPU	4x Cortex-A76 + 4x A55 @2.4Ghz Rockchip 3588 Quad Core	High-performance ARM Cortex A9 CPU @ 1Ghz Dual- / Quad-Core computer	ARM Cortex-A9 Dual Core 1GHz
FSB Frequency	-	-	-
Chipset	ARM Mali G610 MP4	-	-
Watchdog Timer	-	-	-
Basic Equipment	4GB	1GB (Dual) or 2GB (Quad)	2GB
Maximum Equipment	16GB	4GB	-
SDRAM	LPDDR4X	DDR3	-
DIMM / MemorySocket	-	-	DDR3L
Compact Flash	32GB Flash eMMC (up to 128GB)	eMMC	-
SD	1x microSD	1x Micro SD card slot	1x Micro SDHC Slot
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	VGA/CRT, 2x HDMI, 2x DisplayPort	1x HDMI	-
Interface COM	4x RS232 (or RS485)	1x 1x RS232 (as console), 1x 1x RS485	1x RS232/485
CAN	2x	Optional	CAN1 2.0B
Interface USB	2x host pin header USB 2.0, 2x Type-A host, 1x OTG Type C USB 3.0	3x USB 2.0	3x USB 2.0
Interface LAN	2x 2,5G - 5G BASE-T, WiFi 6 (802.11ax) WLAN	1x 10/100/1000 BASE-T	Optional WLAN
Interface IO	-	8-bit GPIO (optional 16-bit) GPIO	3x GPIO
Mini PCIe	-	-	1x Mini PCIe, 1x Half Mini PCIe
Camera	-	-	-
Bluetooth	BT 5.0 (optional)	-	-
PS/2	-	-	-
Audio	1x MIC + 1x Line in	1x Line In, 1x MIC In	1x Line-out, 1x Mic-in, 1x internal Mic-In
Speakers	2x	2x	2x 2W
Headphone	1x	1x	-
RFID	-	-	-
SIM Card	1x M.2 3042/3052 B-key socket for LTE/5G + SIM slot	-	1x
GPS	-	-	1x u-blox NEO-M8N module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	Optional UMTS	-
PCIe	M.2 3042 M-key socket for PCIe SSD	-	2x Mini PCIe
Operating System	-	-	-
Operating System Support	Android/Debian/Yocto	Android 4.2/4.4/6.x, Yocto, Ubuntu 12.04 (by request)	Android 5.1 / Linux
Input Voltage Nominal	9-28VDC (Recommended 12VDC/24VDC nominal)	+12VDC @ 2A	-
Input Voltage Min/Max	-	-	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Operating Temperature	-20°C to 70°C	0°C to 50°C	-20°C to 70°C
Storage Temperature	-30°C bis +80 °C	-	-30°C to 80°C
Relative Humidity	-	-	10% to 90%, non-condensing
Protection	-	-	IP54 front panel
Certification	-	CE, FCC	CE, e13 (Vehicle), Class B FCC
Dimensions	150 x 102 mm	tbd.	212,9 x 144,97 x 40 mm (W x H x D)
Weight	Tbd.	tbd.	1,3kg
Material	-	-	Plastic PC, ABS + Metal heat-sink
Typ. Application	Industrial, Digital Signage	Industrial, Digital Signage	Automotive

Selection Guide ARM-based Panel-PC



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



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



Vehicle Mount Computer 110/111

Bestellinformation			
Artikel-Nr. PKPC4412	Artikel-Nr. PKPX4430	Artikel-Nr. PKPA1003	
15,6" Open Frame HMI Panel-PC Kit LCD-TFT FHD 1.300cd/m²	21,5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Ubuntu	7" VMC 110-1A w/Touch Screen, I/O on the back, ARM Cortex-A9,1GHz, DDR3L 2GB, 1.024x600, 500nits, Android	
PCT / Frontglas mit AR/ AF/ OCR Bonding / UV-Filter, SBC mit RK3588CPU / 4GB RAM / 32GB eMMC /Kabelsatz	Artikel-Nr. PKPX4430-1	Artikel-Nr. PKPA1003-1	
	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	7" VMC 110-1U w/Touch Screen, I/O on the back, ARM Cortex-A9,1GHz, DDR3L 2GB, Linux	
	Artikel-Nr. PKPX4431	Artikel-Nr. PKPA1004	
	21,5" Open Frame HMI Panel-PC, 1.920x1.080, 300cd/m², IR TouchScreen, iMX 6D, 1GHz DualCore, 1GB DDR3, 4GB NAND, Android	7" VMC 111-1A w/Touch Screen, I/O on the bottom, ARM Cortex-A9,1GHz, DDR3L 2GB, Android	
	Artikel-Nr. PKPX4431-1	Artikel-Nr. PKPA1004-1	
	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	7" VMC 111-1U w/Touch Screen, I/O on the bottom, ARM Cortex-A9,1GHz, DDR3L 2GB, Linux	
	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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