

Panel-PC PPC-24

Industrial Touch-Panel-PC with 24" Full-HD-Display in Landscape Aspect Ratio 16:9

With PC-touch screen, full glass front, VESA-mounting, integrated Embedded-PC with energy efficient Intel Multi-Core-architecture, intrinsically-safe DC-supply and numerous interfaces.



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PPC-24	
Application	Operation and control of machines in the industrial field (HMI)
Display	24" TFT with True-Colour-Resolution and LED backlight
Front	Full glass front made of tempered safety glass
Chassis	Powder coated steel chassis with supporting plate for safe cable fixation
User Interaction (HMI)	Projective capacitive multi-point-touch screen (PCT)
Communication	LAN or WLAN with Wake-on-WLAN (WoWL)-function (WoWL only from S3/S4-Power-Status)
Power Supply	Safe SELV DC input 12 – 24 VDC
Safety	Automatic re-boot in case of errors by the built-in watchdog-timer. Hardware monitor to control vital system values.
Customizable	Front Panel optionally with customer logo and print behind glass

Technical Specifications of PPC -24	
Display Resolution	1920 x 1080 Dots (RGB), Aspect Ratio 16:9
Colour Depth	16 million colours (True Colour)
Brightness	250 cd/m ² (display native)
Backlight	energy saving LED edge-backlight
Contrast	3000:1
Viewing Angle (horizontal/vertical) / display technology	170° / 160° (85-85/80-80); CR > 10 / TN-technology
Pixel Error Class according to EN ISO 9241-307	II (other classes on inquiry)
Touch Panel-Option	Projective capacitive (PCT) touch screen, internal USB-connection
Supply Voltage	12 – 24 VDC (SELV), 24 VDC power supply & including 2m power cord
Power Consumption (max.)	approx. 45 W
Mounting	VESA-100 with threaded hole M6
Cooling	All-round closed convection-cooled chassis with aluminum back cover for operation under rough environmental conditions. Built-in durable fans control the interior circulation and avoid hot spots.
Expansion and Service	Hinged front unit allows easy access to all components and expansion slots.
Cable Fixation	A detachable supporting plate with separate cable clips and GND connection ensures secure fixing and grounding of all connection cables.
Dimensions PPC-24	approx. 363 (H) x 585 (W) x 86,3 (D) mm, including heat sink
Weight	Basic unit approx. 6 kg

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Technical Specifications of the integrated computer	
Processor	Intel Celeron ULT CPU 2980U CPU, 2 cores, 1,6 GHz, TDP 15W optionally with Intel Core i5-4300U CPU, 4 cores, 1,9 GHz/2,9 GHz burst
Chipset	Intel Haswell SoC
System memory	2 SO-DIMM socket für DDR3L, 1333 MHz., 8 GB (optionally expandable to max. 16 GB)
Bulk Memory	mSATA SSD with 240 GB
Graphics	Intel HD-Graphics
Graphic Memory	Shared Memory
Connections on the back of the built-in Computer	2 x GB-LAN 1 x USB 3.0-Port, 4 x USB 2.0-Port (2 of which on the side of the unit) 3 x serial port (DSUB-9) 2 x HDMI-port 1 x Audio Line-out Stereo (3,5 mm phone jack) 1 x WLAN/BT-antenna input (option) 1 x DC-Versorgung (round socket 2,5/5,5 mm)
Internal Expansion Slots	1 x MiniCard full size (mSATA/mPCIe/USB2.0), reserviert für SSD! 1 x MiniCard half size (mPCIe)
BIOS	AMI-BIOS with integrated LAN-Boot ROM-Image
Watchdog-Timer	Timeout-Intervals from 1 – 255 min./sec.
System Monitoring & Management	CPU- und system temperature, internal operation voltages
Permissible Operation Temperature	0 ~ +45°C
Permissible Operation Humidity	0% ~ 95% (relative humidity, without condensation)
IP-Protection Class	Front IP65, complete unit IP50
Noise Emission	Minimal noise emission due to the temperature operated internal circulation fans

Configuration Options PPC-24	
RAM-Expansion to 16 GB	Price on inquiry
Operating System Windows 7 embedded	Price on inquiry
Operating System Windows 7 Professional	Price on inquiry
PPC WLAN/Bluetooth incl. antenna	Price on inquiry