POS-15,6-PPC

Point Of Sale - Panel-PC with 15,6" Display and Touch, embedded-x86 PC-Board with Windows 10 IoT Operating System and passive Cooling

Stand: 2020-45A

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with Windows 10 IoT Operating System and passive Cooling**

Technical Specifications POS-Display 15,6-x86	
Application	Point of Sale terminal (POS), Customer-Information-Display
Display Type	Wide View-Technology (comparable to IPS-Technology)
Display Size	15,6" (396,2mm)
Display Resolution	1920 x 1080 Dots (RGB), Aspect Ratio 16:9
Display Colour Depth	true color , min. 16,2 million displayable colours
Viewing Angle	typ. 170°/170° or wider (horizontal/vertical) wide-view, at CR=10
Contrast Ratio (CR)	typ. 800:1
Display Brightness (Luminance)	typ. 450 cd/m²
Backlight Lifetime	LED-Backlight, typ. 50.000h (until the luminance is reduced by 50%)
Pixel Error class according to EN ISO 9241-307	II (other classes on request)
Touch Panel	Projective capacitive (PCT) multi-touch, internal USB connection
Audio-Options	Stereo-Audio output via 2 integrated loudspeakers of 2W each
Integrated Operating Buttons	Buttons for manual brightness adjustment (+/-) and power button function integrated in a housing niche on the rear.
Integrated Function Indicators	Front: white LED as operation indicator (system voltage active) Rear: bicolor LED (green & yellow) integrated in the power button as operation and mass storage access indicator.
Rear Connections	1x 12VDC power-in-connection (system supply) 1x 12VDC supply-out-connection 2x USB 3.0 1x USB 2.0 1x RJ45 LAN (10/100/1000MBit) 1x HDMI (output for external monitor)
Front	Full glass front with chemically hardened front glass (CVG) using a 3mm thick float glass, anti-glare surface, AG85. Rear printing with black frame in RAL 9005. Optional: rear printed customer logo
Casing	ABS+PC black plastic housing (organically shaped shell housing). Integrated cover of the connection area.
Cable Management	Rear housing niche with all connections pointing downwards. Screwable niche cover with integrated cable management and strain relief via clamping bar and opposite elastomer sealing profile.
Power Supply	12VDC, ca. 30W (without peripherals). Supply via included, external 60 W-desktop power pack for 100-240VAC (partial load operation to increase reliability).
Non-volatile data buffering (NV-RAM)	Lithium button cell 3V, size CR2032, assembled with cable and connector.
12VDC supply-out-connection	max. 1A / 12W (switch-on peak current max. 5A during 2ms). Switchable via software (e.g. for an optional external monitor)
Mounting	VESA-mounting holes 100 x 100 mm, M4 thread
Dimensions	approx. 234 (H) x 385 (W) x 58 (D) mm
Weight	approx. 2,4kg (3,6 kg including power supply and packing)
Display Stand	available as an Option.
Reliability	designed for continuous operation (24/7)

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Technical Specifications of the built-in Computer:	
Ambient operation temperature range	Passive cooling: 0° ~ +40 °C, up to a tilt angle of 45° compared to vertical Operation in Landscape mode only. Optional active cooling is required for operation at a wider tilt angle or alignment in portrait mode.
Storage temperature	-20° ~ +60°C
Relative Operation Humidity	20 % ~ 85% (relative humidity without condensation)
Relative Storage Humidity	5 % ~ 95% (relative humidity without condensation)
Cooling	Passive cooling. Optional active cooling via exchangeable, temperature-controlled miniature fan with function monitoring and dust gard.
Noise development	Passive cooling: not perceptible. Active cooling: 32,5 (max 37,5) dB(A)
Processor	Intel Atom X5 E3930 / Dual Core / basic cycle 1,30 GHz, burst 1,80GHz, TDP 6,5W (Apollo Lake-Family).
Chipset	Intel SoC (integrated in the processor)
System Memory	4GB DDR3L, 1866 MHz SO-DIMM DRAM, max. 8GB, SO-DIMM
Bulk Memory	250GB mSata SSD (form factor M.2)
Graphic Processor	Intel HD-Graphics 500
Wireless Communication (OTA)	WLAN, Dual Band 2,4/5GHz (IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w, 802.11r, 802.11k, 802.11h pending OS support) Bluetooth BT5
Operating System	Win 10 IOT
IP-Protection Class	Complete Unit IP20
Fulfilled EU-Guidelines	**EMC:** 2014/30/EU **LVD:** 2014/35/EU **RED:** 2014/53/EU **RoHS:** 2011/65/EU
Safety Power Supply	Conformity checked according to IEC 62368-1
EMC limit class	Emitted interference (EN55032): Class B (when using the power supply included in the shipment)

View of the cable management with lifted cover of the connection niche: