

Summary

The IPC-250 Series offers compact, rugged, fanless, and fully industrial-grade box PCs based on Intel Apollo Lake IoT Atom processors that provide continuous, unrestricted operation at ambient temperatures down to -40 ... +85 degrees Celsius. The computers are integrated in powder-coated aluminum housings, flexibly configurable, available for 15 years and are offered with a 5-year warranty (bring in).



IPC-250 in Housing 1 with CAN-, RS485-, GPIO- and WLAN-Interfaces

Housing

For optimum installation housing variants are available:

- Housing 1 WxHxD = 120 x 96 x 28 mm for direct mounting on housing walls
- Housing 2 WxHxD = 112 x 84 x 34 mm for DIN rail mounting
- Housing 3 WxHxD = 120 x 96 x 40 mm for mounting via VESA-100
- Customization available on request

Ambient Temperature

The IPC-250 is available for the following temperature classes (at a relative humidity of 5-95% without condensation):

- Class 1: Operation at ambient temperature 0 ... 60 ° C, storage at -40 ... +85 ° C
- Class 2: Operation at ambient temperature -20 ... 60 ° C, storage at -40 ... +85 ° C
- Class 3: Operation at ambient temperature -40 ... 85 ° C, storage at -40 ... +85 ° C

Power Supply

The integrated DC24V power supply allows operation with an input voltage of DC 9-36V. Connection cables and external AC power supplies with variable AC country adapter are available as accessories.

Processor

As a processor, the following Intel Atom processor Apollo Lake (X-series) is available:

- [X7-E3950 embedded](#), 14nm, quad core 1.6 GHz / 2MBL2 / 12W / Intel HD 505



IPC-250 Mainboard

Basic Interfaces

Independent from the available variants IPC-150 has always following basic interfaces on board:

- 2x USB 2.0
- 2x USB 3.0
- 1x RS232
- 1x HDMI 1.4
- 1x mini-DP 1.3
- 1x Slot microSD-Card
- 2x intel I211 Gigabit LAN
- Audio (digital and analog)

Technical Data

Umgebungstemperatur	Operation 0 ... 60 / -20 ... 60 / -40 ... 85°C	Storage -40 ... 85°C
Power Supply	DC24V (9 ... 36V)	
Processor	intel Atom X7-E3950 quad core 1,6GHz	
Main Memory	up to 16GB	DDR3L-1866 (1,13V)
Storage Memory 1	SSD up to 500GB	M.2 2260 / 2242
Storage Memory 2	SSD / HDD bis 4TB	2,5" SATA3
Display	Dual Head, mini-DP1.2 4k@60Hz, HDMI 1.4 4k30Hz	
Basic-Interfaces	2x LAN (Intel i211), 2x USB2.0, 2x USB3.0, 1x RS232	
Options	1: Serial (1x RS232/485, GPIO) 2: CAN (1x CAN, 1x RS232/485, GPIO) 3: LAN (2x intel I211) 4: LAN-FO (1x LAN fiber optic) 5: WLAN 802.11ac + Bluetooth 6: GSM Modem 4G-EU 7: Power over Ethernet (device) 8: USB (4x USB2.0) 9: customized	
Operation Systems	0: none 1: Linux Debian 32-bit 2: Linux Debian 64-bit 3: Linux Debian 65-bit mit KVM 4: VMware iSphere 5: Windows 10 IoT Enterprise 6: Windows 10 LTSC 7: Windows 10 Pro 8: Windows 10 Home	
Certificates	CE, FCC	