

SPC-4600

Intel Atom® E3950 Processor (Apollo Lake) Ultra-compact Fanless PoE+ Embedded Box PC



Features

- Quad Core Intel Atom® x7-E3950 SoC (Apollo Lake-I) supports lower power consumption
- Fanless, -40°C to 85°C operating temperature
- DVI-I and DisplayPort dual display supports up to 4K resolution
- Supports DDR3L 1866MHz memory, up to 8GB
- 2 Independent GigE PoE+ LAN support IEEE 802.3at & IEEE 1588 (PTP)
- 16 Isolated DIO, 4 USB 3.0, 4 COM RS-232/422/485
- External SIM socket supports WiFi/4G/3G/LTE/GPRS/UMTS
- 9V to 36V wide range DC Power Input
- Configurable Ignition Power Control
- TPM 2.0 supported



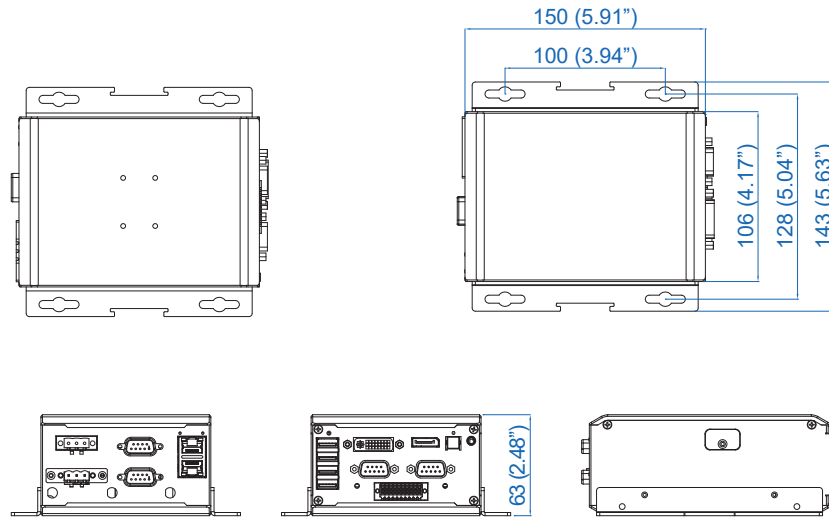
Specifications

| System | |
|--------------------|--|
| Processor | Intel Atom® x7-E3950 Processor (Apollo Lake-I) |
| Chipset | Intel® SoC (Apollo Lake) |
| BIOS | AMI |
| SIO | IT8786E |
| Memory | 1 DDR3L 1866MHz SO-DIMM, up to 8GB |
| I/O Interface | |
| Serial | 4 COM RS-232/422/485 |
| USB | 4 USB 3.0 (External) |
| DIO | 16 Isolated DIO : 8 DI, 8 DO |
| LED | Power, HDD, Wireless, PoE |
| SIM Card | 1 SIM Card Socket (External) |
| Expansion | |
| Mini PCIe | 2 Mini PCIe Socket : <ul style="list-style-type: none"> ▪ 1 Mini PCIe for PCIe/USB/SIM Card ▪ 1 Mini PCIe for PCIe/USB/Optional mSATA |
| Graphics | |
| Graphics Processor | Intel® HD Graphics 505 |
| Interface | <ul style="list-style-type: none"> ▪ DVI-I : DVI up to 3840 x 2160 @60Hz ▪ DP : Up to 4096 x 2160 @60Hz |
| Storage | |
| SATA | 1 SATA III (6Gbps) |
| mSATA | 1 SATA III (Mini PCIe Type, 6Gbps) |
| Storage Device | 1 2.5" SSD/HDD Bracket (Internal) |
| Audio | |
| Audio Codec | Realtek ALC892, 5.1 Channel HD Audio |
| Audio Interface | 1 Line-out |
| Ethernet | |
| LAN 1 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210, IEEE 1588 supported |
| LAN 2 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210, IEEE 1588 supported |

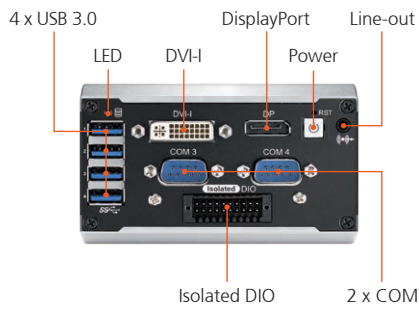
| Power | |
|-----------------------|---|
| Power Input | Wide range 9V to 36V DC Power Input |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |
| Ignition Control | 16 Mode (Internal) |
| Remote Switch | 3-pin Terminal Block : On, Off, IGN |
| Others | |
| TPM | Optional Infineon SLB9665 supports TPM 2.0, LPC Interface |
| Watchdog Timer | Reset : 1 to 255 sec./min. per step |
| HW Monitor | Monitoring temperature, voltages. Auto throttling control when CPU overheats. |
| Software Support | |
| OS | Windows 10, Linux |
| Mechanical | |
| Dimensions | 106mm x 150mm x 63mm (4.17" x 5.91" x 2.48") |
| Weight | 1.2 kg (2.65 lb) |
| Mounting | <ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional) ▪ 2U Rackmount (Optional) |
| Environment | |
| Operating Temperature | -40°C to 85°C (-40°F to 185°F) |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Humidity | 5% to 95% Humidity, Non-condensing |
| Relative Humidity | 95% at 85°C |
| EMC | CE, FCC, EN50155, EN50121-3-2 |

Dimensions

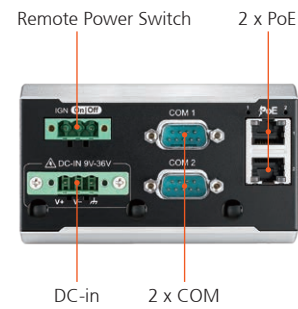
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

| | |
|-----------------|---|
| SPC-4600 | SPC-4600, Intel Atom® E3950, 2 PoE*, 4 USB 3.0, 4 COM, 1 SSD, 1 SIM, 16 Isolated DIO, 9V to 36V DC-in |
|-----------------|---|

Accessories

| | |
|-----------------------------|---|
| DDR3L 8G | Certified DDR3L 8GB 1866MHz SO-DIMM |
| DDR3L 4G | Certified DDR3L 4GB 1866MHz SO-DIMM |
| PWA-160W-WT | 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| PWA-120W | 120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block |
| DIN-RAIL | DIN Rail Kit |
| TMK2-20P-100 | Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm |
| TMK2-20P-500 | Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm |
| TMB-TMBK-20P | Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting |
| 4G Module | Mini PCIe 4G/GPS Module with Antenna |
| WiFi & Bluetooth | WiFi & Bluetooth Module with Antenna |