

# SPC-4600

Intel Atom® x7-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 75°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



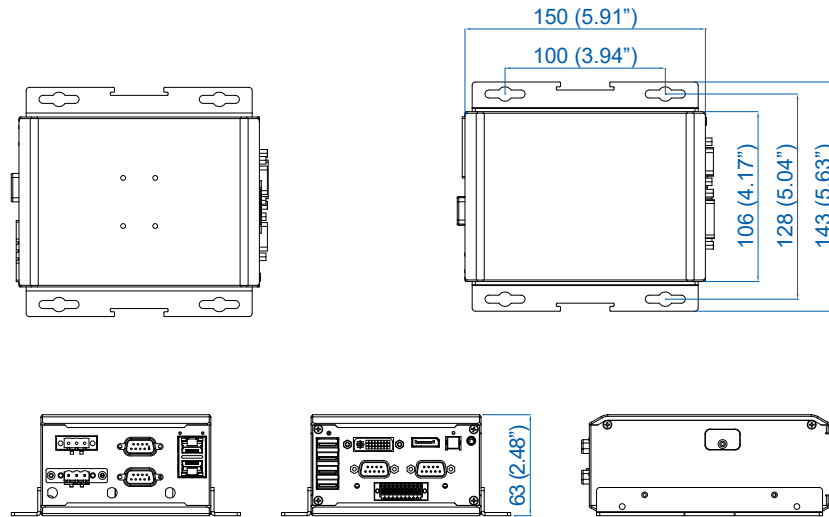
## Specifications

System	
<b>Processor</b>	Intel Atom® x7-E3950 Processor (Apollo Lake-I)
<b>Chipset</b>	Intel® SoC (Apollo Lake)
<b>BIOS</b>	AMI
<b>SIO</b>	IT8786E
<b>Memory</b>	1 DDR3L 1866MHz SO-DIMM, up to 8GB
I/O Interface	
<b>Serial</b>	4 COM RS-232/422/485
<b>USB</b>	4 USB 3.0 (External)
<b>DIO</b>	16 Isolated DIO : 8 DI, 8 DO
<b>LED</b>	Power, HDD, Wireless, PoE
<b>SIM Card</b>	1 SIM Card Socket (External)
Expansion	
<b>Mini PCIe</b>	2 Mini PCIe Socket : <ul style="list-style-type: none"> <li>▪ 1 Mini PCIe for PCIe/USB/SIM Card</li> <li>▪ 1 Mini PCIe for PCIe/USB/Optional mSATA</li> </ul>
Graphics	
<b>Graphics Processor</b>	Intel® HD Graphics 505
<b>Interface</b>	<ul style="list-style-type: none"> <li>▪ DVI-I : DVI up to 3840 x 2160 @60Hz</li> <li>▪ DP : Up to 4096 x 2160 @60Hz</li> </ul>
Storage	
<b>SATA</b>	1 SATA III (6Gbps)
<b>mSATA</b>	1 SATA III (Mini PCIe Type, 6Gbps)
<b>Storage Device</b>	1 2.5" SSD/HDD Bracket (Internal)
Audio	
<b>Audio Codec</b>	Realtek ALC888S-VD, 7.1 Channel HD Audio
<b>Audio Interface</b>	1 Line-out
Ethernet	
<b>LAN 1</b>	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210, IEEE 1588 supported
<b>LAN 2</b>	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210, IEEE 1588 supported

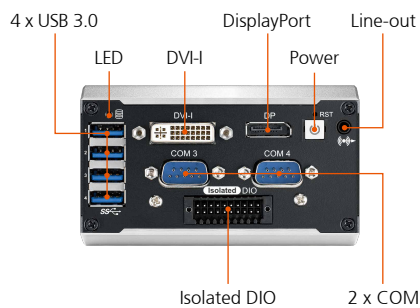
Power	
<b>Power Input</b>	Wide range 9V to 36V DC Power Input
<b>Power Interface</b>	3-pin Terminal Block : V+, V-, Frame Ground
<b>Ignition Control</b>	16 Mode (Internal)
<b>Remote Switch</b>	3-pin Terminal Block : On, Off, IGN
Others	
<b>TPM</b>	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
<b>Watchdog Timer</b>	Reset : 1 to 255 sec./min. per step
<b>HW Monitor</b>	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Software Support	
<b>OS</b>	Windows 10, Linux
Mechanical	
<b>Dimensions</b>	106mm x 150mm x 63mm (4.17" x 5.91" x 2.48")
<b>Weight</b>	1.2 kg (2.65 lb)
<b>Mounting</b>	<ul style="list-style-type: none"> <li>▪ Wallmount by mounting bracket</li> <li>▪ DIN Rail Mount (Optional)</li> <li>▪ 2U Rackmount (Optional)</li> </ul>
Environment	
<b>Operating Temperature</b>	-40°C to 75°C (-40°F to 167°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Humidity</b>	5% to 95% Humidity, Non-condensing
<b>Relative Humidity</b>	95% at 75°C
<b>EMC</b>	CE, FCC, EN50155, EN50121-3-2

## Dimensions

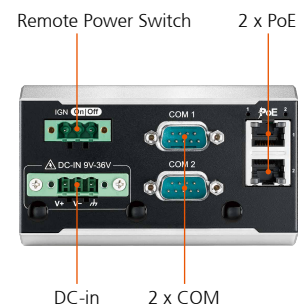
Unit : mm/ inch



## Front I/O



## Rear I/O



## Order Information

<b>SPC-4600</b>	SPC-4600, Intel Atom® x7-E3950, 2 PoE+, 4 USB 3.0, 4 COM, 1 SSD, 1 SIM, 16 Isolated DIO, 9V to 36V DC-in
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### Accessories

<b>DDR3L8G</b>	Certified DDR3L-1866/1600 8G RAM
<b>DDR3L4G</b>	Certified DDR3L-1866/1600 4G RAM
<b>PWA-160W-WT</b>	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
<b>PWA-120W</b>	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
<b>DIN-RAIL</b>	DIN Rail Kit
<b>TMK2-20P-100</b>	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
<b>TMK2-20P-500</b>	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
<b>TMB-TMBK-20P</b>	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
<b>4G Module</b>	Mini PCIe 4G/GPS Module with Antenna
<b>WiFi &amp; Bluetooth</b>	WiFi & Bluetooth Module with Antenna