

# 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



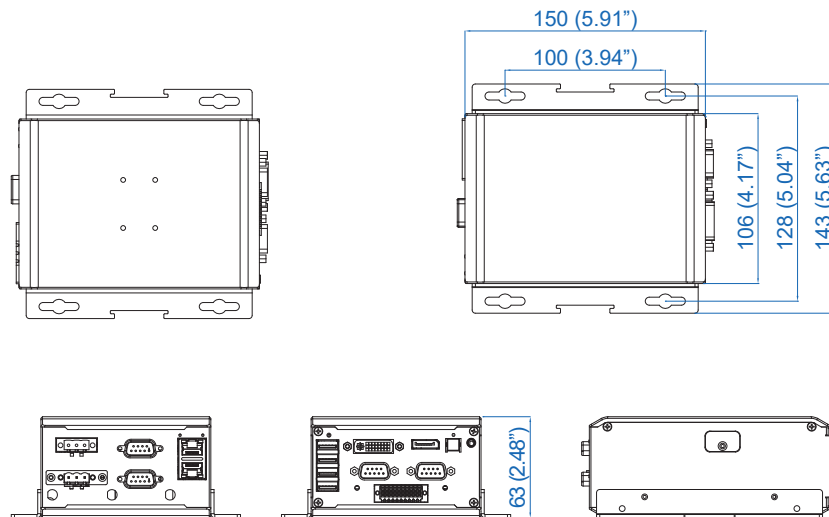
## Specifications

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"> <li>▪ 1 Mini PCIe for PCIe/USB/SIM Card</li> <li>▪ 1 Mini PCIe for PCIe/USB/Optional mSATA</li> </ul>
Graphics	
Graphics Processor	Intel® HD Graphics 505
Interface	<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	
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

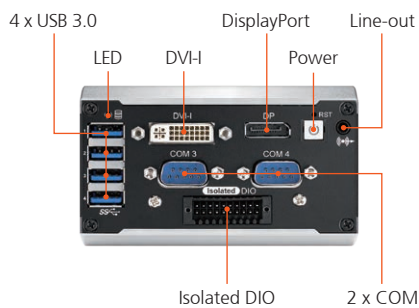
Power	
Power Input	Wide range 9V to 36V DC Power Input
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16 Mode (Internal)
Remote Switch	3-pin Terminal Block : On, Off, IGN
Others	
TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 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"> <li>▪ Wallmount by mounting bracket</li> <li>▪ 2U Rackmount (Optional)</li> </ul>
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

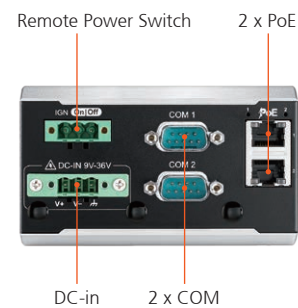
Unit : mm/ inch



## Front I/O



## Rear I/O



## Order Information

<b>SPC-4600</b>	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
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### Accessories

<b>DDR3L 8G</b>	Certified DDR3L 8GB 1866MHz SO-DIMM
<b>DDR3L 4G</b>	Certified DDR3L 4GB 1866MHz SO-DIMM
<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>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