

SPC-4500

Intel Atom® E3950 Processor (Apollo Lake) Ultra-compact Fanless 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 LAN support IEEE 1588 (PTP)
- 4 USB 3.0, 4 COM RS-232/422/485
- External SIM socket supports WiFi/4G/3G/LTE/GPRS/UMTS
- Single 12V DC Power Input
- TPM 2.0 supported



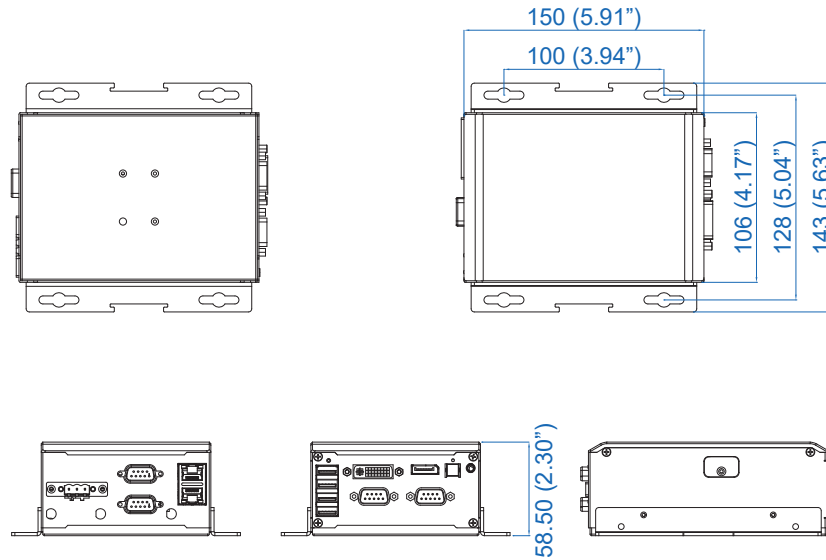
Specifications

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)
LED	Power, HDD, Wireless
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

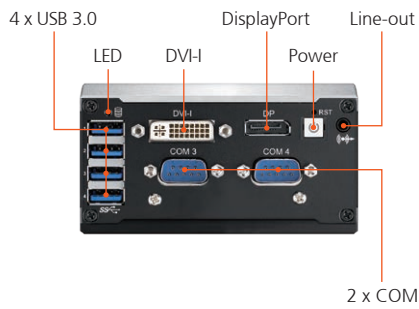
Power	
Power Input	Single 12V DC Power Input
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Others	
TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Software Support	
OS	Windows 10, Linux
Mechanical	
Dimensions	106mm x 150mm x 59mm (4.17" x 5.91" x 2.30")
Weight	0.9 kg (1.98 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

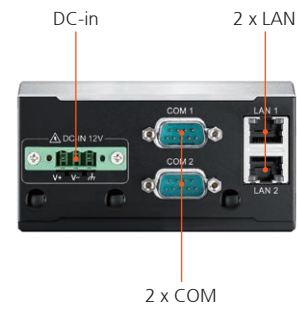
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

SPC-4500	SPC-4500, Intel Atom® E3950, 2 GigE LAN, 4 USB 3.0, 4 COM, 1 SSD, 1 SIM, Single 12V DC-in
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Accessories

DDR3L 8G	Certified DDR3L 8GB 1866MHz SO-DIMM
DDR3L 4G	Certified DDR3L 4GB 1866MHz SO-DIMM
PWA-160W-WT-12V	160W, 12V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-120W-12V	120W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
DIN-RAIL	DIN Rail Kit
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna