

SPC-5600 HIGH-PERFORMANCE FANLESS COMPUTER

9th Generation Intel® Core™ i7/i5/i3 Processor (Coffee Lake Refresh) Compact Fanless Embedded Box PC



- 9th Gen Intel® Core™ i7/i5/i3 Processor (Coffee Lake Refresh) running with Intel® H310 Chipset
- DDR4 2666MHz memory, up to 64GB
- Fanless -25°C to 60°C Operating Temperature, optional supports operation with fan
- 2 DisplayPort and 1 DVI display interfaces support dual independent displays, up to 4K resolution
- 4 USB 3.1, 4 COM RS-232/422/485
- 4 Independent Intel® GigE LAN, iAMT 12.0 supported
- Supports WiFi/4G/3G/LTE/GPRS/UMTS
- 2 Mini PCIe sockets for PCIe/USB/SIM Card/mSATA expansions
- 12V DC Power Input, optional supports 9V to 36V wide range DC power input
- TPM 2.0 supported



Specifications

System

Processor	8 cores Intel®Core™7/i5/i3 Processor (CFL-RS)
Chipset	Intel®H310
BIOS	AM
SIO	IT8786E
Memory	2 DDR4 2666MHz SO-DIMM, up to 64GB (ECC/Non-ECC)
OS	Windows 10, Linux

I/O Interface

Serial	4 COMRS-232/422/485 (ESD 8KV)
USB	- 4 USB 3.1 (External) - 2 USB 2.0 (Internal)
LED	Power, HDD
SIM Card	1 SIM Card Socket (Internal)

Expansion

Mini PCIe	2 Mini PCIe sockets: - 1 Full-size for PCIe/USB/SIM Card - 1 Full-size for PCIe/USB/mSATA
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Graphics

Graphics Processor	Intel®UHD Graphics 630
Interface	- 2 DisplayPort: Up to 4096 x 2304 @60Hz - DVI-D: Up to 1920 x 1200 @60Hz

Storage

SATA	2 SATA III (6Gbps) support S/WRAID0, 1
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)

Audio

Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	1 Mic in, 1 Line-out

Ethernet

LAN1	Intel®I219LM GigE LAN supports iAMT 12.0
LAN2	Intel®I210 GigE LAN
LAN3	Intel®I210 GigE LAN
LAN4	Intel®I210 GigE LAN

Power

Power Input	- 12V DC-in (± 5%) - Optional supports 9V to 36V wide range DC power input (SPC-5600A only)
Power Interface	3-pin Terminal Block: V+, V-, Frame Ground
Remote Switch	2-pin Terminal Block

Others

TPM	Optional Infineon SLB9665 supports TPM2.0, LPC Interface
Watchdog Timer	Reset: 1 to 255 sec./min. per step
Smart Mgmt	Wake on LAN PXE supported
HWMonitor	Monitoring temperature and voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	209.0mm x 150.5mm x 75.0mm (8.23" x 5.93" x 2.95")
Weight	SPC-5600A: 1.6 kg (3.53lb) SPC-5600: 1.3 kg (2.87lb)
Mounting	Wall mount by mounting bracket

Environment

Operating Temp.	35W TDP CPU: -25°C to 60°C (-13°F to 140°F) 65W TDP CPU w/Fan Bracket: -25°C to 60°C (13°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 60°C
Shock	- IEC 60068-2-27 - SSD: 50G @ Wall Mount, Half-sine, 11ms
Vibration	- IEC 60068-2-64 - SSD: 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

Order Information

SPC-5600-20190822

Model	DC-IN	GigE LAN	SSD	USB3.1	COM	SIM
SPC-5600	12V	4	2	4	4	1
SPC-5600A	9-36V					

CPU List

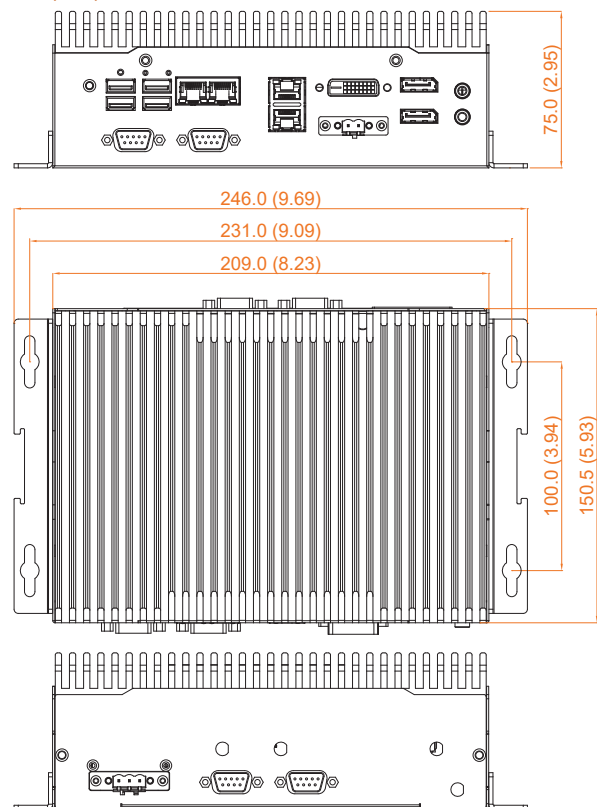
Series	CPU	Cores	GHz	TDP (W)	CPU	Cores	GHz	TDP (W)	ECCRAM
Intel® Core™	i7-8700	6	4.6	65	i7-9700E	8	4.4	65	N/A
	i7-8700T	6	4	35	i7-9700TE	8	3.8	35	
	i5-8500	6	4.1	65	i5-9500E	6	4.2	65	
	i5-8500T	6	3.5	35	i5-9500TE	6	3.6	35	
	i3-8100	4	3.6	65	i3-9100E	4	3.7	65	
	i3-8100T	4	3.1	35	i3-9100TE	4	3.2	35	

Accessories

DDR432G	Certified DDR4 32GB 2666MHz RAM
DDR416G	Certified DDR4 16GB 2666/2400/2133MHz RAM
DDR48G	Certified DDR4 8GB 2666/2400/2133MHz RAM
DDR44G	Certified DDR4 4GB 2666/2400/2133MHz RAM
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-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	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-120W-12V	120W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
Fan Bracket	Fan Bracket for SPC-5600
VESA Mount	VESA Mounting Kit
DIN-Rail Kit	DIN Rail and VESA Mounting Kit
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



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