

SPC-5600

8th Generation Intel® Core™ i7/i5/i3 Processor (Coffee Lake) Compact Fanless Embedded Box PC

- 8th Gen Intel® Core™ i7/i5/i3 Processor (Coffee Lake-S) 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



Vehicle Computing



Smart Manufacturing



In-vehicle Infotainment



Intelligent Control



Specifications

System

| | |
|-----------|---|
| Processor | 6 cores Intel® Core™ i7/i5/i3 Processor (Coffee Lake-S) |
| Chipset | Intel® H310 |
| BIOS | AMI |
| SIO | IT8786E |
| Memory | 2 DDR4 2666MHz SO-DIMM, up to 64GB (ECC/Non-ECC) |
| OS | Windows 10, Linux |

I/O Interface

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|----------|--|
| Serial | 4 COM RS-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

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

Graphics

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

Storage

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|-------|--|
| SATA | 2 SATA III (6Gbps) support S/W RAID 0, 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

| | |
|-------|---|
| LAN 1 | Intel® I219LM GigE LAN supports iAMT 12.0 |
| LAN 2 | Intel® I210 GigE LAN |
| LAN 3 | Intel® I210 GigE LAN |
| LAN 4 | Intel® I210 GigE LAN |

Power

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|-----------------|---|
| Power Input | 12V DC-in (± 5%) |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |
| Remote Switch | 2-pin Terminal Block |

Others

| | |
|----------------|--|
| TPM | Optional Infineon SLB9665 supports TPM 2.0, LPC Interface |
| Watchdog Timer | Reset : 1 to 255 sec./min. per step |
| Smart Mgmt. | Wake on LAN, PXE supported |
| HW Monitor | 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 | 1.3 kg (2.87 lb) |
| Mounting | Wallmount by mounting bracket |

Environment

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|-------------------|--|
| 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@Wallmount, Half-sine, 11ms |
| Vibration | - IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis |
| EMC | CE, FCC, EN50155, EN50121-3-2 |

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Order Information

| Model | GigE LAN | SSD | USB 3.1 | COM | SIM |
|----------|----------|-----|---------|-----|-----|
| SPC-5600 | 4 | 2 | 4 | 4 | 1 |

CPU List

| Series | CPU | Cache (MB) | Turbo Freq. (GHz) | TDP (W) | ECC Memory |
|--------------|----------|------------|-------------------|---------|------------|
| Intel® Core™ | i7-8700 | 12 | 4.6 | 65 | NA |
| | i7-8700T | 12 | 4.0 | 35 | |
| | i5-8500 | 9 | 4.1 | 65 | NA |
| | i5-8500T | 9 | 3.5 | 35 | |
| | i3-8100 | 6 | 3.6 | 65 | |
| | i3-8100T | 6 | 3.1 | 35 | Yes |

Accessories

| | |
|------------------|---|
| DDR4 32G | Certified DDR4 32GB 2666MHz RAM |
| DDR4 16G | Certified DDR4 16GB 2666/2400/2133 MHz RAM |
| DDR4 8G | Certified DDR4 8GB 2666/2400/2133 MHz RAM |
| DDR4 4G | Certified DDR4 4GB 2666/2400/2133 MHz RAM |
| 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 |
| 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)

