

SPC-5200

8th Gen Intel® Core™ i7/i5/i3 Processor (Whiskey Lake) Fanless Embedded Box PC

- 8th Generation Intel® Core™ i7/i5/i3 U-series processor (Whiskey Lake) supports up to 40% greater productivity than former generation solution
- Compact design, matches 1U one rack unit of height
- Fanless -40°C to 70°C Operating Temperature
- DDR4 2400MHz memory, up to 32GB
- Supports DisplayPort and DVI-D dual display
- 4-port USB 3.1 Gen 2 supports up to 10Gbps data transfer
- 4 Independent GigE LAN with 2 PoE (Power over Ethernet), iAMT 12.0 supported
- SIM Socket for WiFi/4G/3G/LTE/GPRS/UMTS
- 4 COM RS-232/422/485, 16 Isolated DIO
- Expansion : SATA III, mSATA and Mini PCIe
- Supports TPM 2.0
- 9V to 48V wide range DC Power Input
- Configurable Ignition Power Control

Intelligent Control



Machine Vision



In-Vehicle Comouting



AGV/AGR



Specifications

System

Processor	Quad Core Intel® Core™ i7/i5/i3 U-series Processor (Whiskey Lake)
Chipset	Intel® SoC (Cannon Lake)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 2400MHz SO-DIMM, up to 32GB
OS	Windows 10, Linux

I/O Interface

Graphics Processor	Intel® UHD Graphics 620
Interface	Dual display : - DVI-D : Up to 1920 x 1200 @60Hz - 1 DisplayPort : Up to 4096 x 2304 @60Hz

Ethernet

LAN 1	Intel® I219LM GigE LAN supports iAMT 12.0
LAN 2	Intel® I210 GigE LAN

PoE

LAN 3	Intel® I210 GigE PoE LAN
LAN 4	Intel® I210 GigE PoE LAN

Audio

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

Storage

SATA	1 SATA III (6Gbps)
mSATA	1 SATA II (Mini PCIe Type, 3Gbps)

I/O Interface

Serial	4 COM RS-232/422/485 (ESD 8KV)
USB	4 USB 3.1 Gen2
Isolated DIO	16 Isolated DIO : 8 DI, 8 DO
LED	Power, HDD, PoE
SIM Card	1 SIM Card Socket (Internal)

Expansion

Mini PCIe	1 Mini PCIe for PCIe/USB/SIM Card/Optional mSATA
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Power

Power Input	9V to 48V DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16 Mode (Internal)
Remote Switch	3-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, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	246.1mm x 53.8mm x 44.0mm (9.69" x 2.12" x 1.73")
Weight	1 kg (2.18 lb)

Environment

Operating Temp.	-40°C to 70°C (-40°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 85°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	CPU	GigE LAN	PoE	10G USB	COM	SIM Socket	SSD Bracket
SPC-5200-8665U	Core i7-8665UE	4	2	4	4	1	1
SPC-5200-8365U	Core i5-8365UE	4	2	4	4	1	1
SPC-5200-8145U	Core i3-8145UE	4	2	4	4	1	1
SPC-5200-4305U	Celeron 4305U	4	2	4	4	1	1

Accessories

DDR4 32G	Certified DDR4 32GB 2666MHz RAM
DDR4 16G	Certified DDR4 16GB 2666/2400/2133MHz RAM
DDR4 8G	Certified DDR4 8GB 2666/2400/2133MHz RAM
DDR4 4G	Certified DDR4 4GB 2666/2400/2133MHz RAM
VESA Mount	VESA Mounting Kit
DIN-RAIL Kit	DIN Rail and VESA Mounting Kit
PWA-120W	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
TMK2-20P-100	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
TMK2-20P-500	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
TMB-TMBK-20P	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)

