

IPC964-512-FL NEW

4-slot Fanless Barebone System with LGA1151 Socket 7th/6th Gen. Intel® Core™ i7/i5/i3 & Celeron® Processor (up to 3.4 GHz), Intel® Q170 Chipset, PCIe and PCI Slots

Features

- LGA1151 Socket 7th/6th gen. Intel® Core™ i7/i5/i3 & Celeron® processor, up to 35W (codename: Kaby Lake/Skylake)
- Intel® Q170 chipset
- Supports 4 expansion slots
- Supports power input: 24 VDC (uMin=19V/uMax=30V)
- Compact & front I/O design
- -10°C to +60°C wide operating temperature range with W.T. SSD
- Supports 2 swappable 2.5" HDD & RAID 0,1
- Supports optional WLAN module & antenna
- Supports TPM 2.0 optional



▲ Rear view



- | | | |
|----------------------------|-------------------|---|
| 1. Antenna opening x 2 | 6. Reset switch | 12. (1) AX93511: 4 x RS-232/422/485 module (default RS-232) |
| 2. Remote switch | 7. Power switch | (2) AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out with isolated 1.5KVDC DIO module |
| 3. Mic-in x 1/Line-out x 1 | 8. Terminal block | (3) AX93516: 4 x RS-232/422/485 with isolated 1.5KV |
| 4. Ethernet x 2 | 9. HDD/Power LED | 13. (1) AX96410: 1 PCIe x16 + 3 PCIe x4 |
| 5. VGA | 10. USB 3.0 x 4 | (2) AX96411: 1 PCIe x16 + 1 PCIe x4 + 2 PCI |
| | 11. HDMI | |



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40	
Processor System	CPU Level	7th/6th gen. Intel® Core™ i7/i5/i3 & Celeron® processor up to 35W (codename: Kaby Lake/Skylake)
	Max. Speed	3.4 GHz
	Chipset	Intel® Q170
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM max. up to 32GB	
System I/O	1 x Switch for power On/Off (ATX)	
	1 x Remote switch	
	1 x Reset switch	
	1 x 3-pin terminal block	
	1 x AT/ATX selectable switch	
	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	
	4 x USB 3.0	
	1 x HDMI	
	1 x VGA	
	1 x Mic-in	
1 x Line-out		
Extension System IO Module	AX93511: 4 x RS-232/422/485 module (default RS-232)	
	AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out isolated DIO	
	AX93516: 4 x RS232/422/485 with isolated 1.5KV	

TPM	TPM 2.0 (optional)
Expansion Interface	AX96410: 1 PCIe x16 Gen. 3 + 3 PCIe x4 Gen. 3
	AX96411: 1 PCIe x16 Gen. 3 + 1 PCIe x4 Gen. 3 + 2 PCI 1 x full-size PCI Express Mini Card slot with USB & PCIe interface
Storage	2 x 2.5" 7/9.5/15mm swappable HDD and RAID 0,1
System Indicators	1 x Power LED 1 x HDD LED
Power Supply	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operation Temperature	1. -10°C ~ +60°C (+14°F ~ +140°F) with 6th gen. Intel® Core™ and W.T. HDD or W.T. SSD
	2. -10°C ~ +50°C (+14°F ~ +122°F) with 7th gen. Intel® Core™ and W.T. HDD or W.T. SSD
Storage Temperature	-20°C ~ +80°C (-4°F ~ +176°F)
Humidity	10% ~ 90%, non-condensing
Dimensions	188.1 mm (7.39") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.8 Kg (10.56 lb) / 5.9 Kg (12.98 lb)
Certification	CE compliance

* All specifications and photos are subject to change without notice.

Ordering Information

System

IPC964-512-DC-FL	4-slot fanless barebone system with 7th/6th gen. Intel® Core™ i7/i5/i3 processor with Intel® Q170
IPC964-512-DC-ECM-FL	4-slot fanless EtherCAT master controller embedded barebone system with 7th/6th gen. Intel® Core™ i7/i5/i3 processor and Intel® Q170

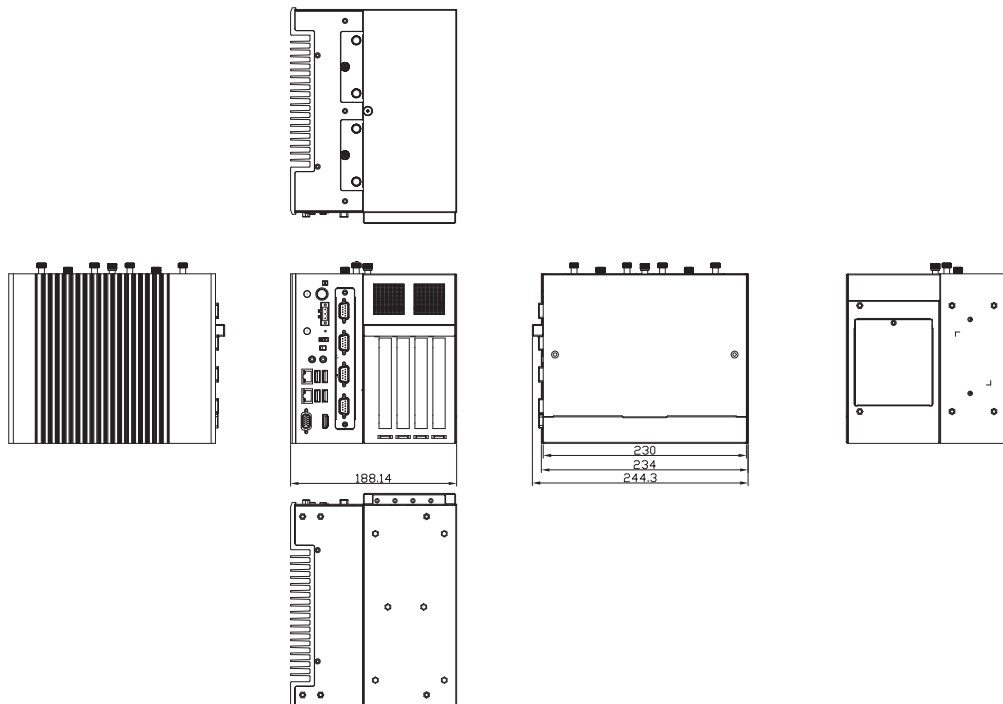
I/O Module & Riser Card

8816G962020E	AX93511: 4 x RS-232/422/485 IO module (default RS-232)
	AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out isolated DIO module
	AX93516 4 x RS232/422/485 with isolated 1.5KV
83964101000E	AX96410: 1 PCIe x16 + 3 PCIe x4
83964111000E	AX96411: 1 PCIe x16 + 1 PCIe x4 + 2 PCI

Optional

2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM max. up to 32GB	
826G9640020E / 8816G9640A0E	IPC964-512-FL fan module kit
826G9620020E / 8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
	AX92320: 4-port PCI Express GbE PoE communication card
	AX92351: 32-in/32-out isolated 1.5KV DIO module

Dimensions



Power Protection

DC Version

OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC964-512-FL unit
1 x Driver CD
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket