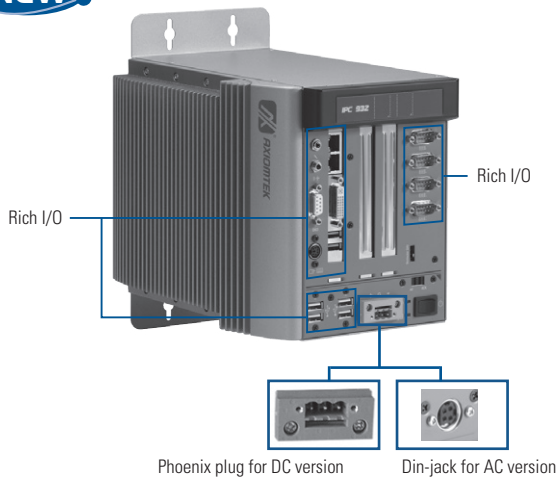


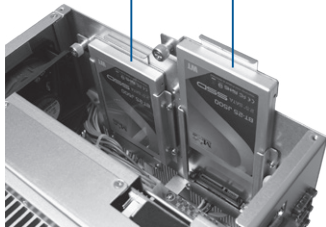
IPC932-230-FL

2-slot Fanless Barebone System with 4th Generation Intel® Core™ i7/ i5/ i3 and Celeron® processors up to 3.3 GHz (Codename Haswell/Haswell Refresh), Intel® Q87 Chipset, PCIe and PCI Slots

NEW



Supports 2 x SATA HDD, Easy-to-install

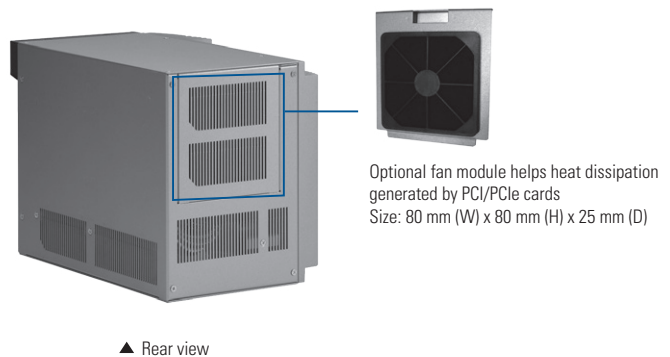


Specifications

Standard Color	Sliver
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP30
System Board	SHB230DGGA
Processor System	4th Generation for Intel® Core™ i7/ i5/ i3/ Celeron® processors, up to 45W (Codename Haswell/Haswell Refresh)
Max. Speed	3.3GHz
Front Side Bus	N/A
Chipset	Intel® Q87
System Memory	2 x 204-pin DDR3-1333/1600 SO-DIMM, max. up to 16 GB
I/O Interface (Front)	ATX power on/off switch 1 x 2-pin connector output for remote on/off switch 2 x USB 3.0 4 x USB 2.0 2 x RS-232 (COM 3/4) 2 x RS-232/422/485 (COM 1/2) 2 x 10/100/1000Mbps Ethernet 1 x DVI-I 1 x DIO (Female DB9 Connector) (4 IN and 4 OUT) 1 x PS/2 keyboard/mouse 1 x Audio (MIC-in/Line-out) 1 x AT/ATX Mode switch

Features

- 4th Generation Intel® Core™ i7/ i5/ i3 and Celeron® processors, up to 45W (Codename Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports two expansion slots
- DC to DC power supply supports 10~30V
- Compact & front I/O design
- Rugged, up to -10°C ~ +50°C fanless operation with W.T. SSD or W.T. CFast™
- Supports Intel® AMT 9.0
- Supports two 2.5" SATA HDD



Expansion Interface	HAB100: 1 PCIe x1 & 1 PCIe x4 HAB103: 1 PCIe x4 & 1 PCI
Storage	2 x 2.5" SATA HDD, 1 x CFast™ socket
System Indicators	1 x power on/off , 1 x HDD
Power Supply	DC ATX 150W: Input : 10~30VDC Output: +5V@11A, +3.3V@5A, +12V@9A, -12V@-150mA, 5Vsb@2A AC-DC power adapter: Input: 90~264VAC Output: 19V@7.89A
Operation Temperature	-10°C ~ +50°C (+14°F ~ +122°F) with W.T. HDD or W.T. SSD or W.T. CFast™
Storage Temperature	-20°C ~ +80°C (-4°F ~ +176°F)
Humidity	10% ~ 90%, non-condensing
Dimensions	159.9 mm (6.36") (W) x 251.8 mm (10.02") (D) x 185 mm (7.2") (H)
Weight (net/gross)	6.2 kg (13.67 lb)/7.2 kg (15.87 lb)
Certification	CE compliance

**The maximum power rating for expansion slots at 50°C can not be exceeded the following values: The maximum loading of +3.3V /1A and +5V/5A and +12V /3A <60W

Ordering Information

PCIe Version

IPC932-230-FL-HAB100-DC (PN: E26G932101)	2-slot fanless embedded system with Intel® Core™ i7/ i5/ i3, PCIe slots and DC-in ATX 150W P/S
IPC932-230-FL-HAB100-AC (PN: E26G932100)	2-slot fanless embedded system with Intel® Core™ i7/ i5/ i3, PCIe slots , DC-in ATX 150W P/S and AC-DC 150W power adaptor and US power cord

PCI+PCIe Version

IPC932-230-FL-HAB103-DC (PN: E26G932103)	2-slot fanless embedded system with Intel® Core™ i7/ i5/ i3, PCI & PCIe slots, DC-in ATX 150W P/S
IPC932-230-FL-HAB103-AC (PN: E26G932102)	2-slot fanless embedded system with Intel® Core™ i7/ i5/ i3, PCI & PCIe slots , DC-in ATX 150W P/S and AC-DC150W power adaptor and US power cord

*Specifications and certifications are based on options and may vary.

Power Protection

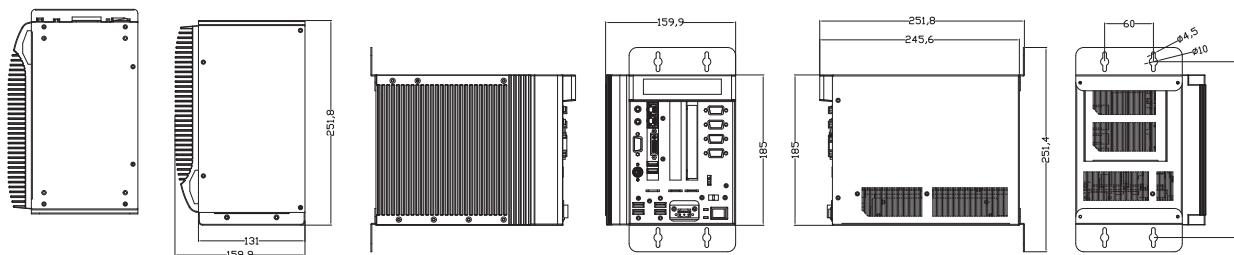
AC Version

OVP (over voltage protection)
OTP (over temperature protection)
OPP (over power protection)
SCP (over circuit protection)

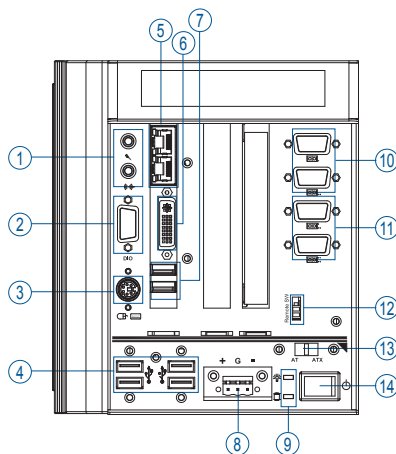
DC Version

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

Dimensions



Front & Rear Metal Panel I/O Layout



1. Audio(MIC-in/Line-out)
2. Digital I/O
3. PS/2 keyboard/mouse
4. USB 2.0 x 4
5. Ethernet x 2
6. DVI-I
7. USB 3.0 x 2
8. Power connector (Din-Jack or Phoenix plug)
9. LED for Power and HDD
10. RS-232/422/485 (COM 1/2)
11. RS-232 (COM 3/4)
12. Remote power switch
13. ATX/AT Mode switch
14. ATX Power switch

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