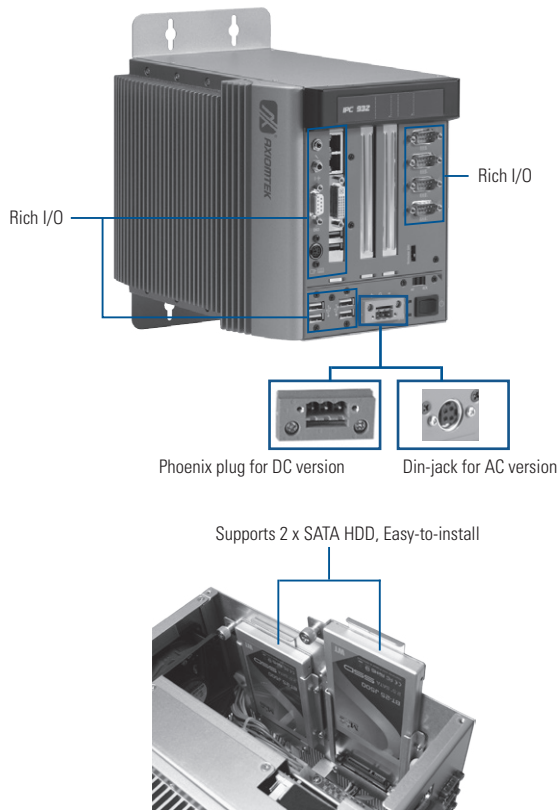


# IPC932-230-FL

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

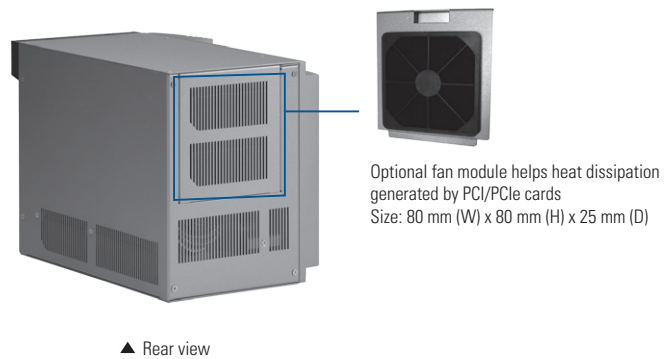


## Specifications

Standard Color	Sliver
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP30
System Board	SHB230DGGA
Processor System	CPU Level 4th Generation Intel® Core™ i7/i5/i3 & Celeron® Processor 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 & Celeron® processor, 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
- Supports SATA 6Gbs with RAID 0,1



Expansion Interface	HAB100: 1 PCIe x1 & 1 PCIe x4 HAB103: 1 PCIe x4 & 1 PCI HAB108: 2 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 4th Generation Intel® Core™ i7/i5/i3 Processor PCIe slots and DC-in ATX 150W P/S

IPC932-230-FL-HAB100-AC (PN: E26G932100) 2-slot fanless embedded system with 4th Generation Intel® Core™ i7/i5/i3 Processor 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 4th Generation Intel® Core™ i7/i5/i3 Processor PCI & PCIe slots, DC-in ATX 150W P/S

IPC932-230-FL-HAB103-AC (PN: E26G932102) 2-slot fanless embedded system with 4th Generation Intel® Core™ i7/i5/i3 Processor 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)

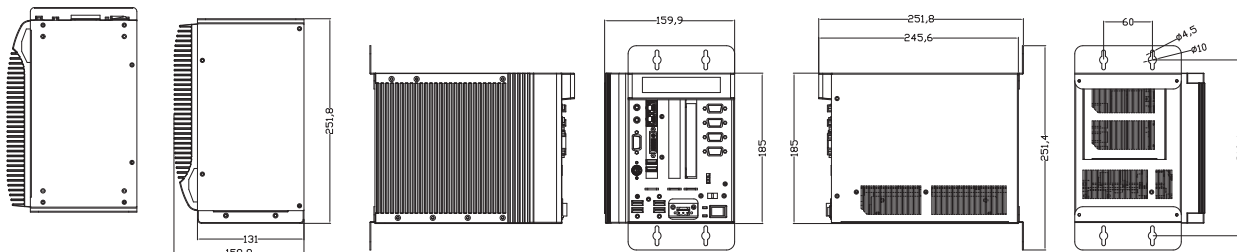
### DC Version

OVP (over voltage protection)

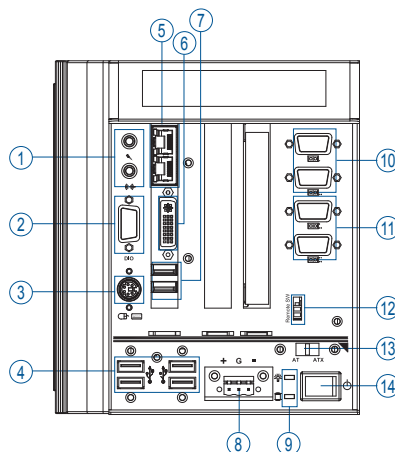
SCP (short circuit protection)

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

## Optional Items

DDR3 SO-DIMM: 2 GB, 4 GB, 8 GB

CFast™: 2 GB, 4 GB, 8 GB

2.5" SATA HDD: 320 GB, 500 GB

IPC932-230-FL Fan module kit (E26G932104)

Y-Cable for CRT and DVI 150 mm (594826A0010E)

6P PS/2 KB+Mouse cable (59381560000E)

## Packing List

IPC932-230-FL Series Unit x 1

19V 150W Adapter (for AC Version)

Driver CD

Quick Manual

Wall Mount Bracket x 2

Screw pack x 1

Foot pad x 4

CPU Thermal Pad x 1

HDD Bracket x 2

HDD Mylar x 2

Terminal block x 1 (for DC version)

Remote power switch cable x 1

