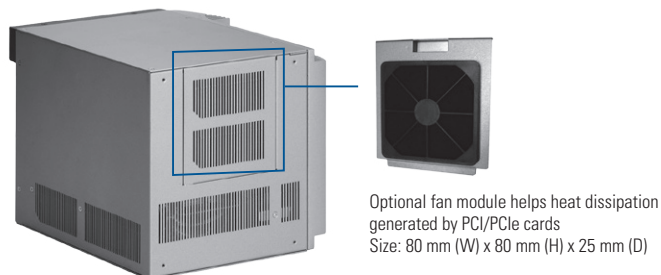
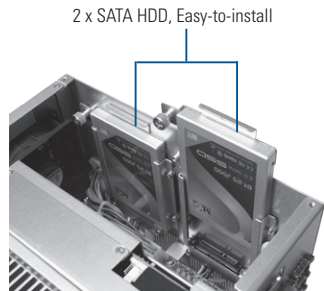
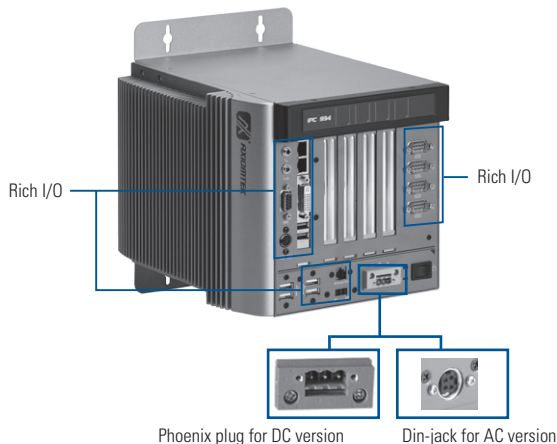


# IPC934-230-FL

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

## Features

- Fanless operation
- 4th gen Intel® Core™ i7/i5/i3 & Celeron® processor up to 45W (codename: Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports 4-slot expansion slots
- 10~30 VDC to DC power supply
- Compact & front I/O design
- -10°C to +50°C operation with W.T. SSD or W.T. CFast™
- Supports iAMT 9.0
- Support SATA 6Gbs with RAID 0,1



## Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP30	
System Board	SHB230DGGA	
Processor System	CPU Level	4th generation for Intel® Core™ i7/i5/i3 & Celeron® processor, up to 45W (codename: Haswell/ Haswell Refresh)
	Max. Speed	3.3 GHz
	Front Side Bus	N/A
	Chipset	Intel® Q87
System Memory	2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB	
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-232/422/485(COM 1/2)	
	2 x RS-232(COM 3/4)	
	2 x 10/100/1000 Mbps 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 SW		

▲ Rear view

Expansion Interface	HAB104: 4 PCI HAB105: 2 PCI & 1 PCIe x1 & 1 PCIe x16
Storage	2 x 2.5" SATA HDD, 1 x CFast™ socket
System Indicators	1 x power on/off, 1 x HDD
Power Supply	DC ATX150W :
	Input: 10~30 VAC
	Output: +5V@11A, +3.3V@5A, +12V@9A, -12V@-150mA, 5Vsb@2A
AC-DC power adapter:	Input: 90 ~ 264 VAC
	Output: 19V@7.89A
	Operation Temperature
Storage Temperature	-20°C ~ +80°C (-4°F ~ 176°F)
Humidity	10% ~ 90%, non-condensing
Dimensions	200.54 mm (7.96") (W) x 251.8mm (9.99") (D) x 185 mm (7.3") (H)
Weight (net/gross)	5.9 kg (12.98 lb)/6.9 kg (15.18 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

### PCI Version

IPC934-230-FL-HAB104 DC (P/N: E26G934101)	4-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI slots and DC-in ATX 150W P/S
IPC934-230-FL-HAB104 AC (P/N: E26G934100)	4-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI slots, DC-in ATX 150W P/S, AC-DC 150W power adaptor and US power cord

### PCI+PCIe Version

IPC934-230-FL-HAB105 DC (P/N: E26G934103)	4-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI & PCIe slots and DC-in ATX 150W P/S
IPC934-230-FL-HAB105 AC (P/N: E26G934102)	4-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI & PCIe slots, DC-in ATX 150W P/S, AC-DC 150W 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)

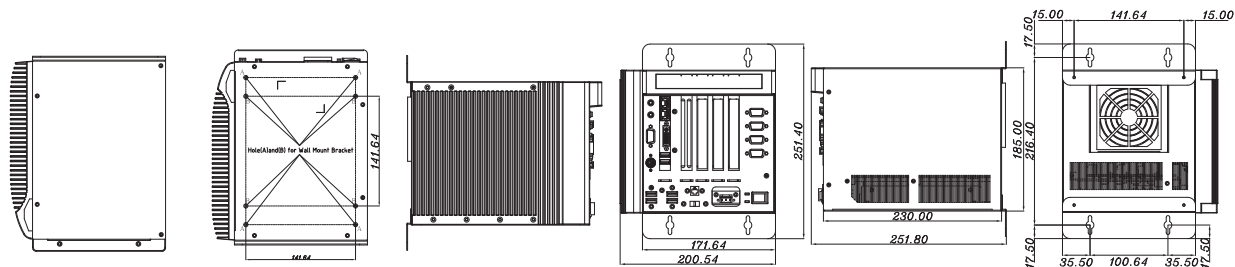
## Optional Items

DDR3 SODIMM: 2 GB, 4 GB, 8 GB  
 CFast : 2 GB, 4 GB, 8 GB  
 Embedded OS: WIN7 OS Image and License  
 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)

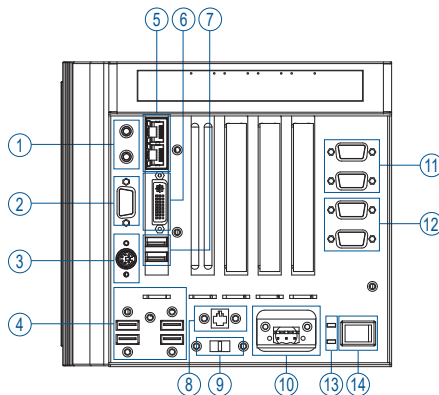
## Packing List

1 x 19 V 150 W adapter and US power cord (for AC version)  
 1 x Driver CD  
 1 x Quick manual  
 2 x Wall mount bracket  
 4 x Foot pad  
 2 x HDD bracket  
 2 x HDD mylar  
 1 x Screw pack  
 1 x Thermal pad for RAM  
 1 x CPU thermal pad  
 1 x Terminal block ( for DC version)  
 1 x Remote power switch cable

## 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. Remote power switch
9. ATX/AT Mode switch
10. Power connector (Din-Jack or Phoenix plug)
11. RS-232/422/485 (COM 1/2)
12. RS-232 (COM 3/4)
13. LED for Power and HDD
14. ATX Power switch

