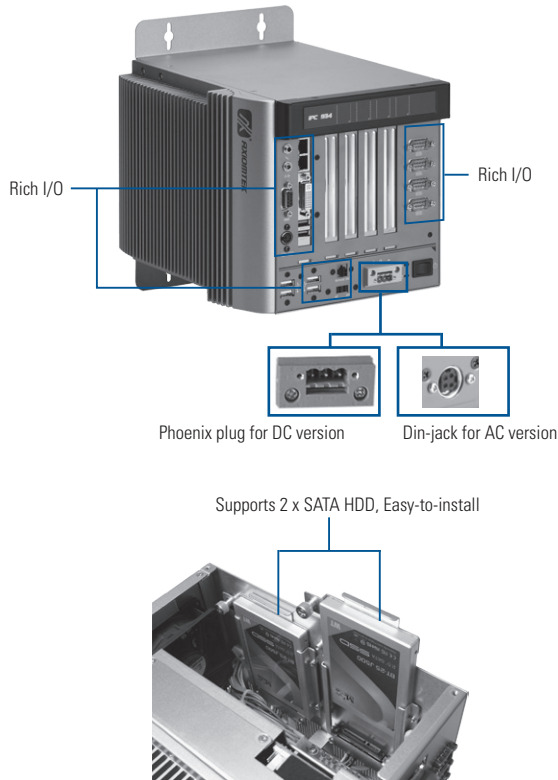


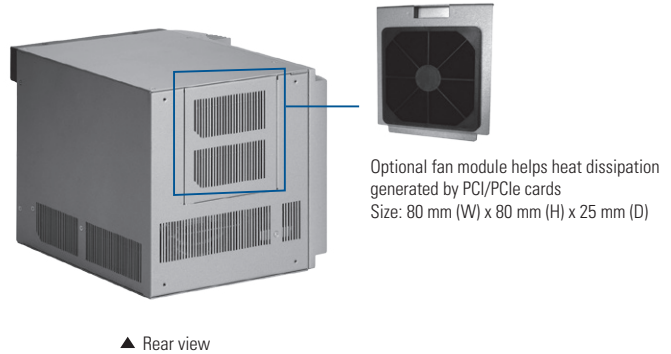
IPC934-230-FL

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



Features

- Fanless operation
- 4th Generation Intel® Core™ i7/i5/i3 & Celeron® processor up to 45W (Codename Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports 4-slot expansion slots
- DC to DC power supply supports 10~30V
- Compact & front I/O design
- Rugged, up to -10°C ~ +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	Sliver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP30	
System Board	SHB230DGGGA	
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, 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-232/422/485(COM 1/2)	
	2 x RS-232(COM 3/4)	
	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 SW		

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 : 10~30Vac
	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) w/ W.T. HDD or SSD or CFast™
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 and 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 and AC-DC 150W power adaptor and US power cord

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

Power Protection

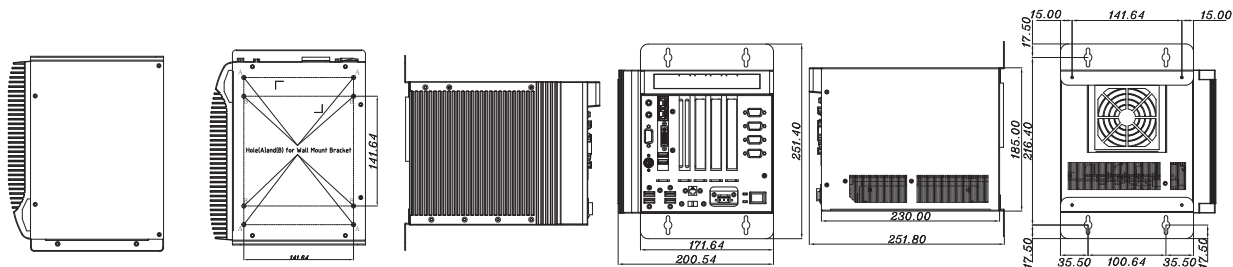
AC Version

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

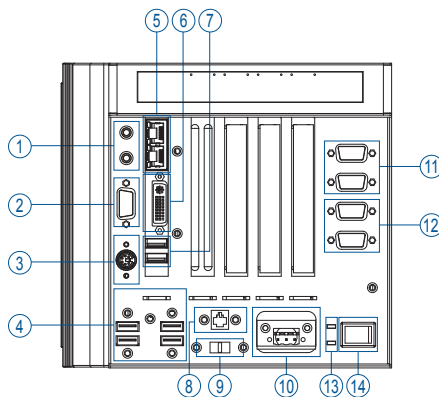
DC Version

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

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

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

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

Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Industrial Firewall

Digital Signage Solutions

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories