

IPC934-230-FL

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

Features

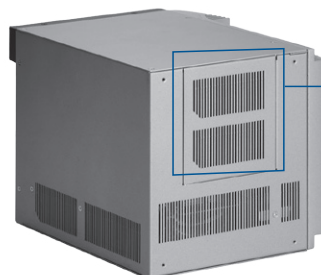
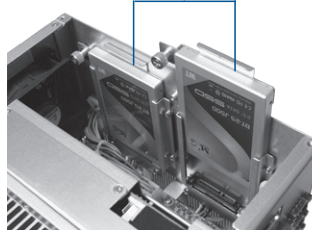
- Fanless operation
- 4th gen Intel® Core™ i7/i5/i3 & Celeron® processor up to 45W (codename: Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports 4-slot expansion slots
- 10~30 VDC to DC power supply
- Compact & front I/O design
- -10°C to +55°C operation with W.T. SSD or W.T. CFast™
- Supports iAMT 9.0
- Support SATA 6Gbs with RAID 0, 1



Phoenix plug for DC version

Din-jack for AC version

2 x SATA HDD, Easy-to-install



Optional fan module helps heat dissipation generated by PCI/PCIe cards
Size: 80 mm (W) x 80 mm (H) x 25 mm (D)

▲ Rear view



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	
	2 x RS-232	
	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		

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
	Operating Temperature
Storage Temperature	-20°C to +80°C (-4°F to 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)
Certifications	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 industrial system with 4th generation Intel® Core™ i7/i5/i3 processor and front-access I/O PCI slots and DC-in ATX 150W P/S
IPC934-230-FL-HAB104 AC (P/N: E26G934100)	4-slot fanless industrial system with 4th generation Intel® Core™ i7/i5/i3 processor and front-access I/O 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 industrial system with 4th generation Intel® Core™ i7/i5/i3 processor and front-access I/O PCI & PCIe slots and DC-in ATX 150W P/S
IPC934-230-FL-HAB105 AC (P/N: E26G934102)	4-slot fanless industrial system with 4th generation Intel® Core™ i7/i5/i3 processor and front-access I/O PCI & PCIe slots, DC-in ATX 150W P/S, AC-DC 150W power adaptor and US power cord

*Specifications and certifications may vary according to various options.

Power Protection

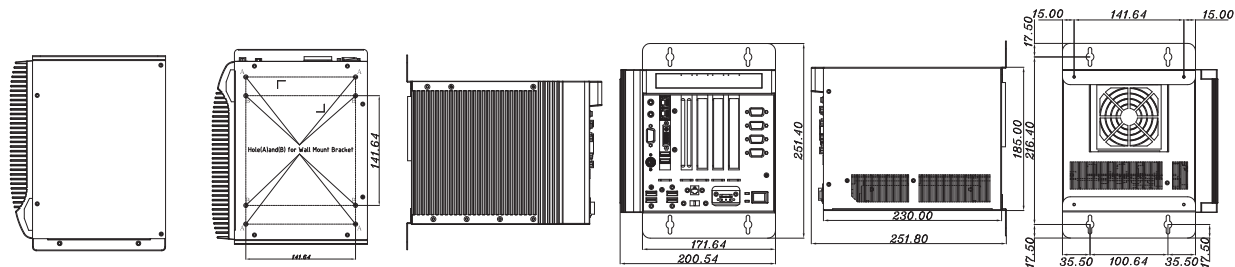
AC Version

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

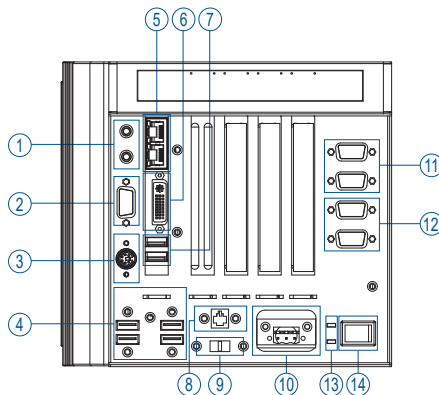
DC Version

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

- 1 x 19 V 150W 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

