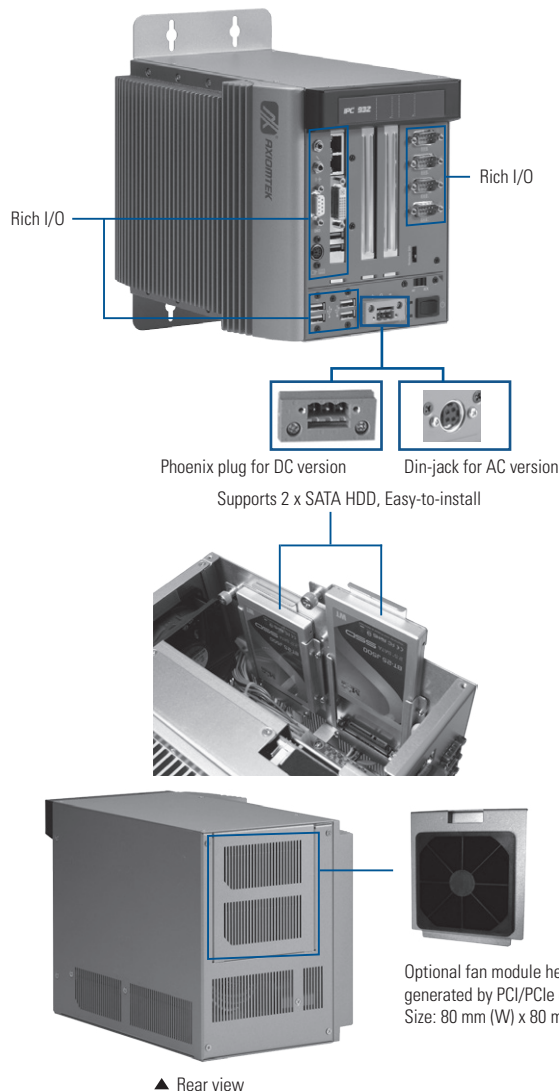


IPC932-230-FL

2-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

- 4th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 45W (codename: Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports 2 expansion slots
- 10-30 VDC to DC power supply
- Compact & front I/O design
- -10°C to +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



Specifications

Standard Color	Silver	
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 45 W (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 (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		

Expansion Interface	HAB100: 1 PCIe x1 & 1 PCIe x4
	HAB103: 1 PCIe x4 & 1 PCI
	HAB108: 2 PCI
	HAB110: 1 PCIe x4 & 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 ATX 150W:
	Input: 10-30 VDC
	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	-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: E26G932107)	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: E26G932106)	2-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCIe slots, DC-in ATX 150W P/S, AC-DC 150W power adaptor and US power cord
IPC932-230-FL-HAB110-DC (PN: E26G932116)	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-HAB110-AC (PN: E26G932115)	2-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCIe slots and DC-in ATX 150W P/S

PCI Version	
IPC932-230-FL-HAB108-DC (PN: E26G932114)	2-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI slots and DC-in ATX 150W P/S
IPC932-230-FL-HAB108-AC (PN: E26G932113)	2-slot fanless embedded system with 4th generation Intel® Core™ i7/i5/i3 processor, PCI slots and DC-in ATX 150W P/S

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 and 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, 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)

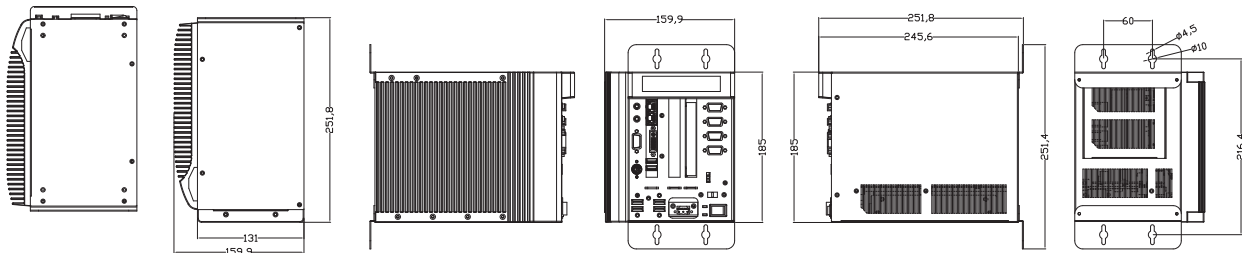
Optional Items

DDR3 SO-DIMM: 2GB, 4GB, 8GB
 CFast™: 2GB, 4GB, 8GB
 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 IPC932-230-FL series unit
- 1 x 19 V 15 0W adapter (for AC Version)
- 1 x Driver CD
- 1 x Quick manual
- 2 x Wall mount bracket
- 1 x Screw pack
- 4 x Foot pad
- 1 x CPU thermal pad
- 2 x HDD bracket
- 2 x HDD mylar
- 1 x Terminal block (for DC version)
- 1 x Remote power switch cable

Dimensions



Front & Rear Metal Panel I/O Layout

