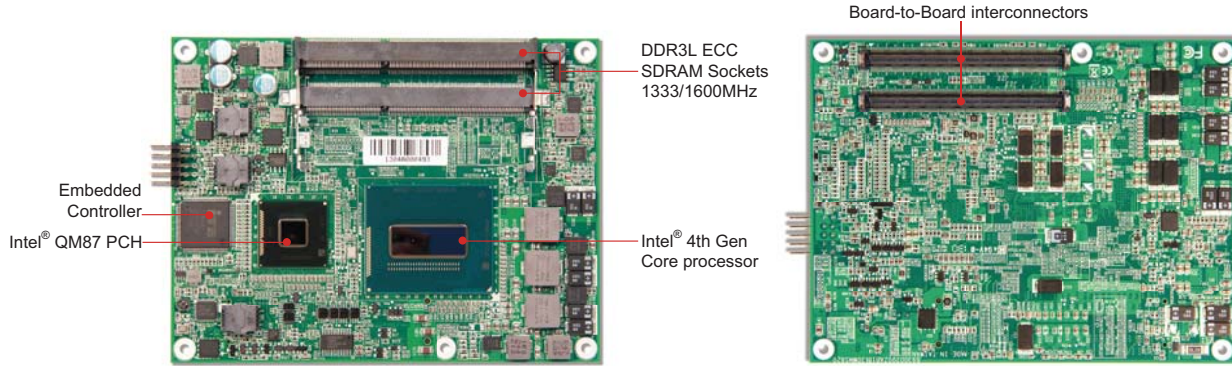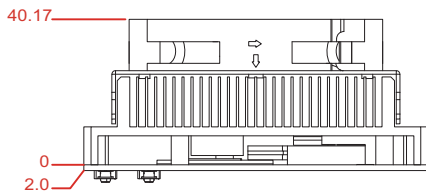# PCOM-B630VG

Intel® 4th Generation Core i7 Processor based on Type VI COM Express module with DDR3L ECC SDRAM, VGA, LVDS, Gigabit Ethernet, SATA 300 and USB

DDR3L ECC SDRAM Sockets 1333/1600MHz

Embedded Controller

Intel® QM87 PCH

Intel® 4th Gen Core processor

Board-to-Board interconnectors

PCOM-B630VG can offer high computing power by Shark Bay processor brings quad core technology and provides signi cant performance improvement. 6GT/s SATA performance is supported by PCOM-B630VG. It supports storage back-up function and enhances performance ability. We also provide SOL, IDER, Serial over Lan and Remote control functions in PCOM-B630VG by Intel® iAMT 9.0 support.

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FEATURES

- The Intel® Shark Bay processor brings Quad-core technology and provides significant performance improvement
- The Intel® QM87 integrated GMA graphic provides better performance and variable display interfaces
- Design to comply with both socket type and BGA type Core i7 processor for intensive computing
- Architecture of module and carrier boards speeds up time-to-market of tailor-made equipment
- Support smart computing and power gear by cTDP (Configurable TDP)
- Follow PICMG COM-Express R2.1 Standard(Type6)
- More Reliable, Rugged & Expandable Design

ORDERING GUIDE

AB1-3920	(R).PCOM-B630VG.TYPE VI. Compact Form Factor.COM Express Module.Haswell/PCH

PACKING LIST

One PCOM-B630VG COM-Express module

GENERAL

processor	- Intel® Core i5/i7 processor in BGA package - DMI x4 link: 5.0GT/s - Support Intel Turbo boost, hyper-treating and configurable cTDP (on /25watts CPU SKUs)
Chipset	Intel® QM87 PCH
BIOS	Phoenix uEFI BIOS
Storage Devices	6x SATA ports (up to 6Gbps)
Memory	Support up to 32GB DDR3L ECC 1333/1600 SDRAM on two 204pin SO-DIMM
Watchdog Timer	Programmable by embedded controller
Expansion Interface	1x PCI-Express x16 or 2*8 or 1*8+2*4 Gen 3, up to 8GT/s

I/O INTERFACE

Super I/O	N/A
Audio	HDA controller integraded in QM87
Ethernet	Onboard Intel I217LM
Serial Port	One series RX/TX supported from onboard EC (embedded controller)
USB	- 8 ports USB2.0 - 4 ports USB3.0
Keyboard & Mouse	KBC controller integraded in embedded controller
GPIO	8bit congfigurable controlled by embedded controller

DISPLAY

Graphic Controller	Intel® HD Graphics 4600 supports DX11.1, OpenGL 3.2
Display Interface	- VGA: resolution up to 1920x1200 - 3x Display Ports: resolution up to 4K x 2K

Mechanical & Environment

Dimension	125mm (L) x 95mm (W) x 2.0mm (H)

Power Supply	- Support 8V~18V DC input
	- Power saving that interoperable with carriers:
	    1) provide only 5V standby in power saving modes.
	    2) provide only the 12V primary power with no 5V standby source

Environment	- Operation temperature: 0~60°C - Storage temperature: -20~80°C - Relative humidity : 5~95%, non-condensing
MTBF	Over 120000 at 55°C