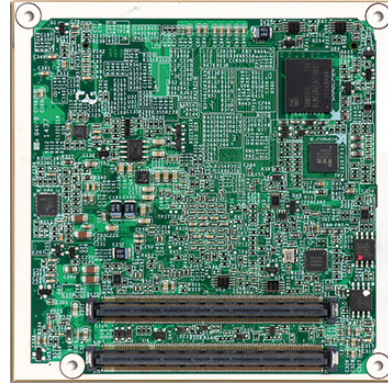
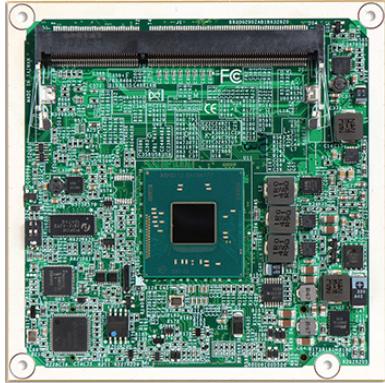
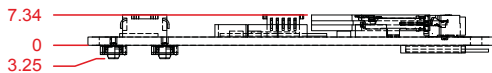


PCOM-B632VG

New Intel® Mobile platform based Type VI COM Express module with DDR3L SDRAM, VGA, eDP, HDMI, Gigabit Ethernet and 3Gbps SATA



PCOM-B632VG is designed to offer good EMC protection by Intel® Atom™ processor E3800 family (codenamed Bay Trail), SoC (System-On-Chip) integrated embedded controller. Also, PCOM-B632VG provides higher performance for various display, eDP and HDMI. The fast PCI-Express interfaces and DDR3L memory capacity also support PCOM-B632VG to support enhance performance than before.



FEATURES

- Latest Intel® Atom embedded processor provides cost effective solutions with low power and quad core processor technology
- Supports up to four PCI Express lanes, four x 1 lanes can be configured to one x 4 lane
- Supports one DDR3L 1067MT/s SDRAM, UP to 8GB
- Supports one USB3.0 port

ORDERING GUIDE

| | |
|-------------------|--|
| PCOM-B632VG-E3815 | Intel Atom E3815 Single-Core Processor |
| PCOM-B632VG-E3827 | Intel Atom E3827 Dual-Core Processor |
| PCOM-B632VG-E3845 | Intel Atom E3845 Quad-Core Processor |

PACKING LIST

One PCOM-B632VG COM-Express module



American Portwell

44200 Christy Street,
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Tel: +1-510-403-3399
Fax: +1-510-403-3184
E-mail: info@portwell.com
http://www.portwell.com

GENERAL

| | |
|---------------------|---|
| Processor | - Intel® Atom™ processor E3800 family, 22nm process technology - Cache up to 2MB (for Quad Core) - DPM (Defect Per Million devices) <50 - Support Intel® VT-x technology |
| BIOS | - Phoenix BIOS |
| Memory | - Support up to 8GB DDR3L 1066/1333 SDRAM on one 204pin SO-DIMM |
| Storage Devices | - Two SATA 2.0 - One Micro-SD slot |
| Watchdog Timer | - Programmable by embedded controller |
| Expansion Interface | - Supports up to four PCI Express lanes by LAN disable, four x 1 lanes can be configured to one x 4 lane (default 3x PCI-Express lanes) - SPI Interface - SM Bus interface - I2C interface |

I/O INTERFACE

| | |
|------------------|--|
| Audio | - HDA controller integrated in SoC |
| Ethernet | - Onboard Intel I210IT |
| Serial Port | - Two series RX/TX supported from onboard EC (embedded controller) |
| USB | - 6 ports USB2.0 - 1 port USB3.0 |
| Keyboard & Mouse | - KB controller integrated in embedded controller |
| GPIO | - 8bit configurable controlled by embedded controller |

DISPLAY

| | |
|--------------------|---|
| Graphic Controller | - Graphic Controller |
| Display Interface | - VGA: resolution up to 2560x1536@24bpp - LVDS/eDP: resolution up to 2560x1600@24bpp - Display Port: resolution up to 1080p |

Mechanical & Environment

| | |
|--------------|---|
| Dimension | - 95mm(L) x 95mm(W) x 2.0mm(H) |
| Power Supply | - DC 6V~16.8V |
| Environment | - Operation temperature: -40~80°C - Storage temperature: -40~80°C - Relative humidity : 5~95%, non-condensing |
| MTBF | - Over 180000hrs at 55°C |

