

Main Features

- Scalable platform 3rd generation Intel® Core™ i7/i5/i3 processors + non-ECC
- Intel® B75 PCH chipset support PICMG1.0 specification
- Support Dual channel DDR3 with Non-ECC DIMMs 1333/1600MHz, up to 16GB
- Support PCI/ISA, 4 x USB3.0/4 x USB2.0, 1 x SATA3.0/3 x SATA2.0 and 2 x GbE
- Display support for VGA, DVI, HDMI
- Dimension 338.58mm (L) x 122mm (W) (8 layers single side)

Product Overview

The PEAK 779VL2 is a PICMG1.0 Full-size single computing board featuring Intel® B75 PCH chipset supports 3rd generation Intel® Core™ processor with Dual DDR3 DIMM socket up to 16GB DDR3 1333/1600MHz SDRAM with Non-ECC support and integrated HD Graphic controller. The Intel® B75 PCH manages SATA2.0/3.0 Ports. Furthermore, it supports others versatile I/O ports such as legacy PCI & ISA interface, two serial ports, KB/Mouse interface, optional TPM function, eight USB ports, and two Intel PCI express Gigabit LAN port. It offers a great solution for advance industrial application that requires superb display and processing performance.

Specifications

CPU Support

- Support Intel® LGA1155, 3rd generation Intel® Core™ processor
- Intel® Core i7-3770 (4C/8M cache/3.4GHz/Max. TDP 77W)
- Intel® Core i5-3550S (4C/6M cache/3.0GHz/Max. TDP 65W)
- Intel® Core i3-3220 (2C/3M cache/2.4GHz/Max. TDP 55W)
- Intel® Pentium® G2120 (2C/3M cache/1.6GHz/Max. TDP 65W)

Main Memory

- Dual DDR3/DIMMs, support 1333/1600MHz non-ECC system memory up to 16GB

Platform Control Hub

- Intel® B75 PCH chipset

BIOS

- AMI System BIOS
- Plug and play support
- Advanced power management and advanced configuration & power

Display

- Intel® HD graphics with DX11 support up to two independent displays
- Supports VGA and DVI/HDMI interfaces

Audio

- HDA interface with PIN header.

On-board LAN

- Intel® 82579LM Gigabit Ethernet
- Intel® 82574L Gigabit Ethernet

- Support PXE boot from LAN, wake on LAN function

I/O Interface

- USB: 3.0, 2 x ports through I/O bracket/2 x port through JST Connector
- USB2.0: 4 x ports through 2.5mm JST connectors
- Four SATA Port: one SATA 3.0/three SATA 2.0
- Four PCI interface/three ISA interface (through ITE8888)
- Two RJ45 Gigabit Ethernet LAN ports
- Four serial ports (COM2 Supports RS232/422/485, RI pin can supply 5V/12V voltage)
- Parallel port through box header
- Keyboard/mouse interface
- HDA interface through pin header for audio function (optional)

Power Requirements

- +12V, +5V, +3.3V, +5VSB, +3.3V RTC power
- Power source form backplane through golden finger and AUX +12V
- Support ATX/AT Power supplies

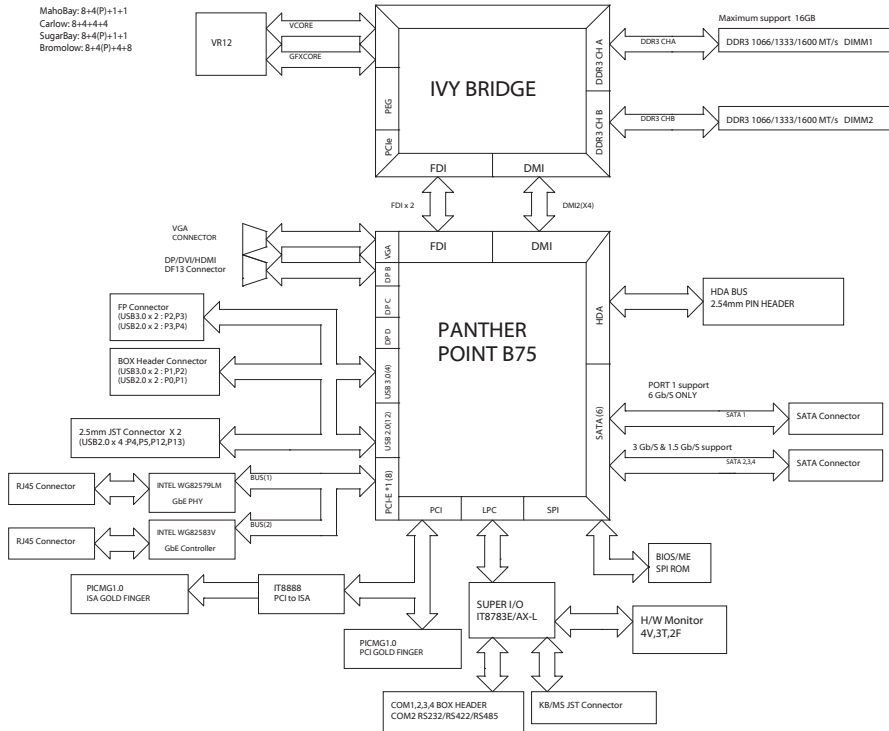
Dimensions

- 338.58mm (L) x 122mm (W)

Environment

- Board level operating temperatures: -15°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (operating, non-condensing)

Block Diagram



5% to 95% (non-operating, non-condensing)

Certifications

- Meet CE
- FCC Class A

Ordering Information

◆ PEAK 779VL2 (P/N:TBD)

PICMG 1.0 Full-Size SBC, Intel® B75 chipset, 3rd generation Intel® Core™ i7/i5/i3 processor with DDR3 DIMM 1333/1600MHz up to 16G, VGA integrated, 2 x GbE, 4 x SATA