# **PEAK 887VL2**





### **Main Features**

- Scalable platform 4th generation Intel® Core™ i7/i5/i3 processor +
- Intel® Q87 PCH chipset support PICMG 1.3 specification
- Support Dual channel DDR3L with NON-ECC DIMMs 1333/1600MHz up to 16GB
- Support PClex16, 4x PClex1, 4x USB 3.0/ 4x USB 2.0, 4x SATA 3.0/ 2x SATA 2.0 and GbE
- Display support for VGA, DVI, HDMI
- Dimension 338.58 x 126.39 mm<sup>2</sup> (W x L) (8 Layers Single side)

#### **Product Overview**

The PEAK 887VL2 is a PICMG1.3 Full-size single computing board featuring Intel® Q87 PCH chipset supports 4th generation Intel® Core™ processor with Dual DDR3L DIMM socket up to 16GB DDR3 1333/ 1600MHz SDRAM with Non-ECC support and integrated HD Graphic controller.

The Intel® Q87 PCH manages SATA 2.0/3.0 Ports. Furthermore, it supports others versatile I/O ports such as legacy four series ports, KB/Mouse interface, optional TPM function, eight USB ports, four PCI express x1 interface 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**

• 4th generation Intel® Core™ i7/i5/i3 processor (95W/ 65W/ 45W/ 35W) TDPs, Socket LGA 1150

#### **Main Memory**

- 2 x DIMM, support Dual channel DDR3L (default)/ DDR3 NON-ECC DIMM (dual voltage models by auto detection for DDR3 and DDR3L
- Maximum 16 GB 1066/1333/1600 MT/S

#### **Platform Control Hub**

• Intel® Q87 Express Chipset PCH

#### **BIOS**

- AMI system BIOS
- 16MBit SPI depended on AMT function
- Dual BIOS for Four PClex1 and One PClex4 auto-detection

- The Processor Graphics contains a refresh of the seventh generation graphics
- Intel® HD Graphics GT1/GT2
- · Share system memory
- Analog Display Support
- · Drive a standard progressive scan analog monitor

#### Audio

· Reverse HDA interface, 2.0mm 2x5 pin header

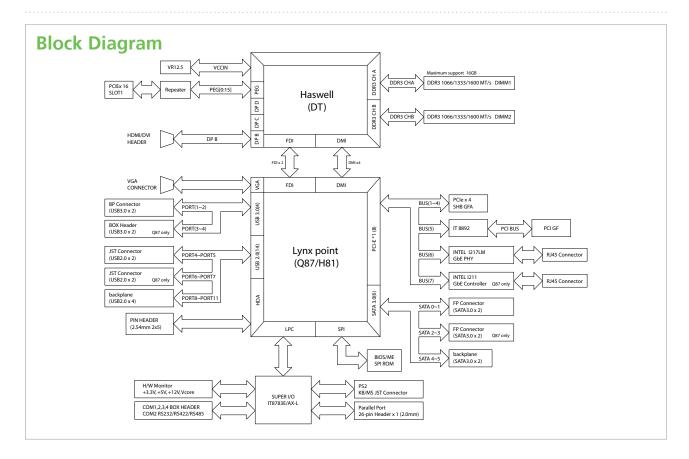
#### On-board LAN

- 1x Intel® I217LM GbE PHY
- 1x Intel® I211 Gigabit Ethernet Controller
- RJ45 with LED connecter x 2
- Support Boot From LAN (PXE)
- RI45 LED
- Support Wake on LAN
- Extra (External) LED: 2 x 4 pin header

#### I/O Interface

- ITF8783
- PS2 KB/MS reserve 1x6 (2.0m) JST connector
- 26-pin Box Header x 1 (2.0mm)
- SIO Box Header x 4 (2.0mm), COM1,3,4 support RS232, COM2 RS232/422/485, RI pin can be select RI/5V/12V with jumper (2x3 pin
- 4 Ports USB 2.0 and 4 ports USB 3.0: 2 ports through 2.5mm JST Connectors, located near Rear Side of PCB (near CPU, USB3.0)





4 ports through backplane (USB 2.0)

2 ports through I/O bracket (USB 3.0)

- 4-pin FAN connector x 2 (for CPU,System)
- On board pin header for IrDA Tx Rx 1x5/2.54mm pin-header
- HDD LED/ Power LED/ Power ON SW/ Reset SW
- On Board buzzer
- USBx1/ USBx1/ LAN1 RJ45 x1/ LAN2 RJ45 x1/ VGA DB15 from top to down

#### **Power Requirements**

- Power source from Backplane through Golden Finger and AUX +12V
- Support ATX/AT function by jumper setting
- BIOS default is (ATX MODE)

#### Dimensions

• 338.58mm x 126.39mm, 8 layers (single side)

#### **Environment**

- Board Level Operating temperatures: -15°C to 60°C
- Storage temperatures: -20°C to 85°C
- Relative humidity:
  10% to 90% (operating, non-condensing)
  5% to 95% (non-operating, non-condensing)

#### Certifications

- CE approval
- FCC Class A
- CB/CCC certification

## **Ordering Information**

• PEAK 887VL2 (P/N: TBD)

PICMG 1.3 Full-size SBC, 4th Generation Intel® Core™ i7/i5/i3 Processors With Max 16GB, DDR3L DIMM, VGA integration, Intel® Gigabit Ethernet x2, USB 3.0 x4, SATA 3.0 x3

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