PEAK 888VL2





Main Features

- Support 6th generation Intel® Core™ i7/i5/i3 processor
- Support Intel[®] Q170/ H110 PCH chipset PICMG 1.3 specification
- Support Dual channel DDR4 with Non-ECC DIMMs 1866/2133MHz up to 32GB
- Support PCIe 3.0 SATA 3.0 W/RAID 0,1,5,10, M.2 NVMe
- Support Display for VGA, DVI/HDMI, DP
- Support Intel® AMT 11 & TPM 1.2/ 2.0(optional)

Product Overview

The PEAK 888 is a PICMG1.3 Full-size Single-Board Computing .It equipped with Intel® 6th generation Core™ i7/i5/i3 processors and Intel® Q170/H110 chipset. It comes with Dual DDR4 DIMM socket up to 32GB DDR4 1866/2133MHz with Non-ECC support and integrated HD Graphic controller. The PEAK 888Q SKU with Intel® Q170 PCH providing high performance and rich expansion. The SATA3.0 ports with RAID 0, 1, 5 and 10 helps provide quick access to data files and data protection. Furthermore, the advanced storage capabilities with Intel® RST features PCIe Gen3 x4 on NGFF M.2 form factor (2280, 22110) to maximizes storage performance and it also features an integrated Intel® AMT 11 for easier maintenance.

The PEAK 888H SKU with Intel® H110 PCH provides high performance and cost effective solution.

Specifications

CPU Support

 6th generation Intel[®] Core[™] i7/i5/i3 processor (65W/ 35W) TDPs, Socket LGA1151

Main Memory

 2 x DIMM, support Dual channel DDR4 NON-ECC DIMM 1866/2133 MT/S (Maximum32GB)

Platform Control Hub

- Intel® H110 Express Chipset PCH
- Intel[®] Q170 Express Chipset PCH

BIOS

- AMI system BIOS
- 16MBit SPI depended on AMT function
- Dual BIOS for Four PCIex1 and One PCIex4

Display

- The Processor Graphics contains a refresh of the ninth generation graphics
- Intel[®] HD Graphics 530
- Support independent triple display.
- VGA: Resolution up to 1920*1200 pixels @60MHz
- DVI : Resolution up to 1920*1200 pixels @60MHz
- HDMI: Resolution up to 4096*2304 pixels @60MHz
- DP: Resolution up to 4096*2304 pixels @60MHz

* Supporting 4K display required two DDR channels of same size

Audio

 High definition audio interface (Compatible with NEXCOM audio daughter board PN: 10E000HDA00X0 EBK-HAD)

On-board LAN

- 1 x Intel[®] WG1219LM GbE PHY (PEAK 888Q support Intel[®] AMT 11)
- 1 x Intel[®] I211 Gigabit Ethernet Controller
- RJ45 with LED connecter x 2
- Support Boot from LAN (PXE)
- Support Wake on LAN

I/O Interface

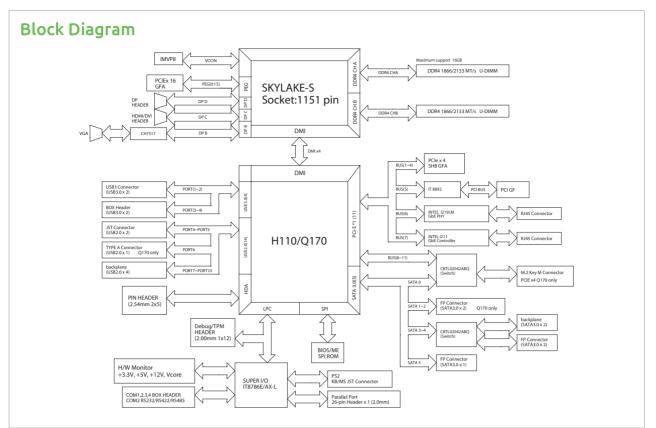
- 1 x PCI Express x16 and 1 PCI Express x4 to backplane 4 x PCI to backplane
- SATA port
- PEAK 888VL2-H
 - 3 x SATA 3.0 Port (2 x SATA 3.0 to BP through BIOS setting)
 - 1 x M.2 2280 /22110 M Key (SATA 3.0)
- PEAk 888VL2-Q
 - 5 x SATA 3.0 port (2 x SATA 3.0 to BP through BIOS setting)
 - 1 x M.2 2280/ 22110 M Key (NVMe Gen 3 PClex4)
 - Support RAID 0/1/5/10
 - SIO: ITE8786 , COM 1,3,4 Support RS232 , COM2 support RS232/422/485 can be selected RI/5V/12V through jumper
 - PS2 KB/MS *1 JST connector

PICMG 1.3

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- Parallel Port: 26-pin box header x 1
- 6 Ports USB2.0 and 4 ports USB3.0
- 2 ports USB2.0, 2 ports USB3.0
- 1 port USB2.0 Type A (PEAK 888Q only)
- 4 ports USB 2.0 through backplane
- 2 ports USB 3.0 through I/O bracket
- 2*10 pin header to support TPM module
- 2 x Smart FAN connector (for CPU, system)
- On-board buzzer
- Watchdog time out can be programmable by software from 1 second to 255 seconds

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: -20°C to 60°C
- Storage temperatures: -20°C to 85°C
- Relative humidity: 0% to 90% (operating, non-condensing) 0% to 95% (non-operating, non-condensing)

Certifications

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

Ordering Information

- PEAK 888VL2-Q (P/N: 10P00088801X0) PICMG 1.3 Full-size SBC,Q170, Intel® LGA1151, DDR4 DIMM, VGA x1, LAN x2, USB3.0 x4, SATA3.0 x5
- PEAK 888VL2-H (P/N: 10P00088800X0)

PICMG 1.3 Full-size SBC,H110, Intel® LGA1151,DDR4 DIMM, VGA x1, LAN x2, USB3.0 x4, SATA3.0 x4

NEXCOM

PICMG 1.3

We reserve the right to change specifications and product descriptions at any time without prior notice. www.ipc2u.ru www.ipc2u.de www.sovio.com Date: 08/2016 Rev.01

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