



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.

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 PCH chipset
- Intel® Q170 PCH chipset

Display

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

On board LAN

RJ45 with LED connector x 2 , Support Boot From LAN (PXE) and wake on LAN

- 1 x Intel® WG1219LM GbE PHY
- 1 x Intel® I211 Gigabit Ethernet Controller
- Extra (External) LED: 2 x 4 pin header

Front I/O

- USB3.0 *2 port
- RJ45*2 port
- VGA *1 port

On board I/O

- 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 PCIe4)
- 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
- Parallel port: 26-pin box header x 1
- 6 ports USB 2.0 and 4 ports USB 3.0
- 2 ports USB 2.0, 2 ports USB 3.0
- 1 port USB 2.0 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)

Environment

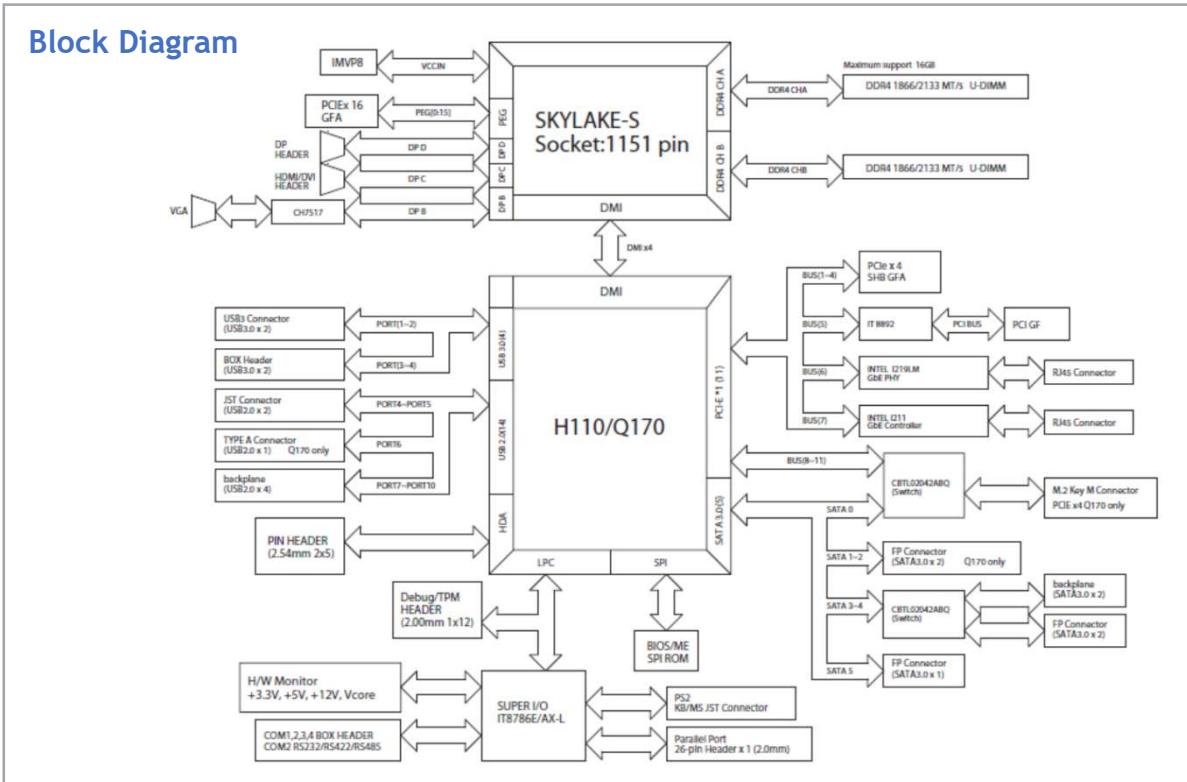
- Board level operating temperatures: -20°C to 60°C
- Storage temperatures: -20°C to 85°C

Relative humidity:

- 0% to 90% (operating, non-condensing)
- 0% to 95% (non-operating, non-condensing)

Certifications

- Meet CE
- FCC Class A



Ordering Information

Top Side Dimensions

- 338mm (W) x 126mm (L)

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

Operating System

- Windows® 7
- Windows® 8.1
- Windows® 10

PEAK 888VL2-Q (P/N: 10P00088801X0)

PICMG 1.3 Full-size SBC,Q170, Intel® LGA1151, DDR4 DIMM, support triple display, LAN x 2, USB 3.0 x 4, SATA 3.0 x 5, M.2 (support PCIe storage)

PEAK 888VL2-H (P/N: 10P00088800X0)

PICMG 1.3 Full-size SBC,H110, Intel® LGA1151,DDR4 DIMM, support dual display, LAN x 2, USB 3.0 x 4, SATA 3.0 x 4 , M.2 (support SATA storage)

Backplane Selection Guide

PICMG1.3 Backplane

Model	BP0926	BP1358	BP1412X1	BP142A0	BP14282	BP14534	BP14570	BP14670	BP19216	BP8648S
Total Slot	10	10	14	14	14	14	14	14	14	14
Expansion slot	PCIex16	1	1	1		1	1	1	1	
	PCIex8				1					
	PCIex4	1			1	1		4	1	8
	PCIex1		3	12			4	4		4
	PCI-X					8				
	PCI	6	8		10	2	3	7	7	16
ISA						4				
PSU Type	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX	24+4 pin ATX

