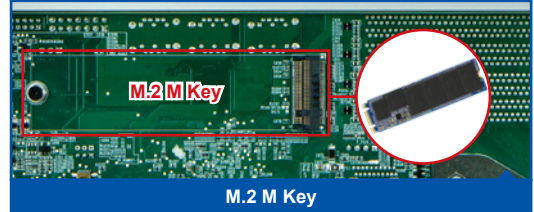
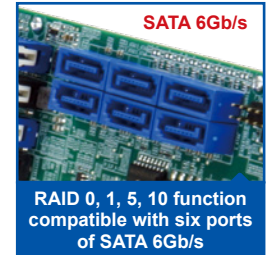
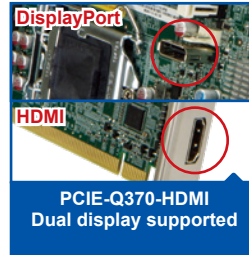
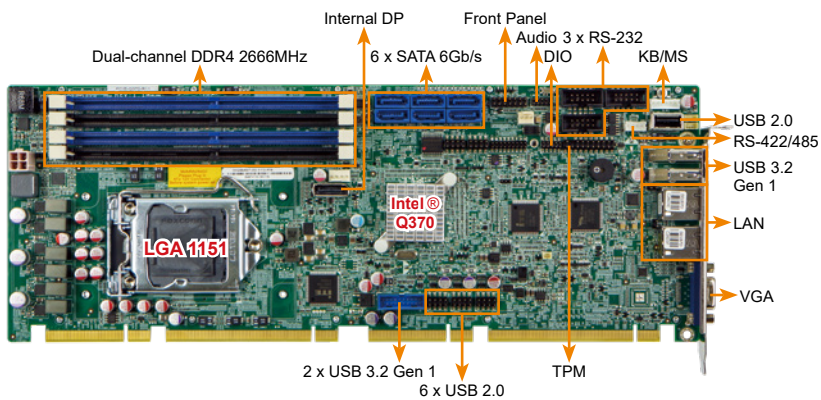


# PCI-E-Q370

Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i9/i7/i5/i3/Pentium®/ Celeron® CPU per Intel® Q370, DDR4, VGA, Dual Intel® PCIe GbE, SATA 6Gb/s, USB 3.2 Gen 1 (5Gb/s), M.2, HD Audio, Intel® AMT and RoHS



## Specifications

- ◆ CPU  
LGA1151 socket supports 8th/9th generation Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
- ◆ Chipset  
Intel® Q370
- ◆ Memory  
Four 288-pin 2666MHz dual-channel DDR4 SDRAM unbuffered DIMMs support up to 64GB
- ◆ BIOS  
AMI UEFI BIOS
- ◆ Graphic Engine  
Intel® HD Graphics Gen 9 Engines with Low power 16 execution unit, supports DX2015, OpenGL 5.X and OpenCL2.x, ES 2.0
- ◆ Display Output
  - » PCI-E-Q370-R12  
Dual display supported  
1 x VGA (up to 1920 x 1080@60Hz)    1 x Internal DP (up to 4096 x 2304@60Hz)
  - » PCI-E-Q370-HDMI-R12\*\*  
Dual display supported  
1 x HDMI (up to 4096 x 2304@30Hz)    1 x Internal DP (up to 4096 x 2304@60Hz)
- ◆ Ethernet  
LAN1: Intel® I219LM PHY  
LAN2: Intel® I210-AT PCIe controller (Co-lay I210-AT)
- ◆ External I/O Interface  
2 x USB 3.2 Gen 1 (5Gb/s) (Rear IO Type-A)  
1 x USB 2.0 (Type-A 180°)
- ◆ Internal I/O Interface  
1 x KB/MS (1x6 pin)                                    3 x RS-232 (2x5 pin, P=2.54)  
1 x RS-422/485 (1x4 pin, P=2.0)                 6 x SATA 6Gb/s (RAID 0/1/5/10 supported)  
2 x USB 3.2 Gen 1 (5Gb/s) (2x10 pin)            6 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Audio  
Support 7.1 channel HD Audio by IEI AC-KIT-888S-R10 kit
- ◆ Front Panel  
1 x Front panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ LAN LED  
2 x LAN LED (1x2 pin)
- ◆ TPM  
1 x TPM (2x10 pin)
- ◆ SMBus  
1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C  
1 x I<sup>2</sup>C (1x4 pin)
- ◆ Expansion  
1 x M.2 M key (2280, PCIe Gen3 x4)  
1 x PCIe x16 & 4 x PCIe x1 signal via golden finger  
4 x PCI signal via golden finger
- ◆ Watchdog Timer  
Software programmable support 1~255 sec. system reset
- ◆ Digital I/O  
8-bit digital I/O (2x5 pin)
- ◆ Fan Connector  
1 x CPU smart fan (1x4 pin)  
1 x System smart fan (1x3 pin)
- ◆ Power Supply  
AT/ATX power supply  
Support AT/ATX mode  
ErP/EuP Compliant
- ◆ Power Consumption  
5V@3.12A, 12V@6.85A, 3.3V@1.13A, 5VSB@0.15A  
(4.0 GHz Intel® Core™ i7-8700K CPU with four 16 GB 2666 MHz DDR4 memory)
- ◆ Operating Temperature  
-20°C ~ 60°C
- ◆ Operating Humidity  
5% ~ 95%, non-condensing
- ◆ Dimension: 338 mm x 126 mm
- ◆ Weight: GW: 1000g / NW: 500g
- ◆ CE/FCC compliant



## Features

- PICMG 1.3 full-size CPU card
- LGA1151 Intel® 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor supported
- Dual-channel DDR4 2666MHz
- Support VGA/HDMI and internal DP display
- Intel® PCIe GbE with Intel® AMT 11.0 supported
- Support M.2 M key for storage (PCIe x4)
- Supports RAID 0, 1, 5, 10 function via SATA 6Gb/s

## Packing List

1 x PCI-E-Q370 single board computer	1 x Mini jumper pack
1 x SATA cable	1 x QIG (Quick Installation Guide)

## Ordering Information

Part No.	Description
PCI-E-Q370-R12	Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU per Intel® Q370, DDR4, VGA, DP, Dual Intel® PCIe GbE, USB 3.2 Gen 1, SATA 6Gb/s, M.2, HD Audio, iAMT and RoHS
PCI-E-Q370-HDMI-R12**	Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU per Intel® Q370, DDR4, HDMI, DP, Dual Intel® PCIe GbE, USB 3.2 Gen 1, SATA 6Gb/s, M.2, HD Audio, iAMT and RoHS
19800-000075-RS	PS/2 KB/MS cable with bracket, 220mm, P=2.0
19800-000100-100-RS	Cable module, USB cable, 6, 300mm, 28AWG, (A) USB A type female*4, (B) Dupont 2X4P P=2.54 female*2, ONE PCS PKG w/ label, with bracket, RoHS
19800-010500-200-RS	Cable module, USB 3.0 internal cable+bracket, 3, 450mm, 30AWG, (A) USB 3.0 20pin P=2.0, (B) USB 9pin A type female*2, bracket+M3 screw*2, lotes, RoHS
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-000702-200-RS	RS-232 cable, 230mm, P=2.54
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board, RoHS
CB-USB02-RS	Dual ports USB cable with bracket
CF-1150SA-R10	Special cooler kit for LGA1150, High-performance compatible, 95W
CF-1150SB-R11	Special cooler kit for LGA1150, High-performance compatible, 65W
CF-1150SC-R20	Special cooler kit for LGA1150, 1U chassis compatible, 65W
CF-1150SE-R11	Special cooler kit for LGA1150, high-performance compatible, 95W

\*\*By order production, MOQ: 200