# Single Board Computer

***Full-size***

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**PCIE-Q370**

***Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® CPU per Intel® Q370, DDR4, VGA, DP, Dual Intel® PCIe GbE, SATA 6Gb/s, USB 3.1 Gen 1 (5Gb/s), M.2, HD Audio, Intel® AMT and RoHS***

DisplayPort

Front Panel

Audio 3 x RS-232

**Four 288-pin DDR4 SDRAM Supported**

**SATA 6Gb/s**

**RAID 0, 1, 5, 10 function compatible with six ports of SATA 6Gb/s**

Dual-channel DDR4 2666MHz 6 x SATA 6Gb/s

DIO

KB/MS

## LGA 1151

### Intel ®

**Q370**

USB 2.0 RS-422/485

USB 3.1

Gen 1 LAN

VGA

# *Specifications*

CPU

2 x USB 3.1 Gen 1 TPM

6 x USB 2.0

**M.2 M Key**

LGA1151 socket supports 8th generation Intel® Core® 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

Dual display supported

1 x VGA (up to 1920x1200@60 Hz)

1 x DP (up to 4096 x 2304@60Hz) Ethernet

LAN1: Intel® I219LM PHY

# *Features*

* PICMG 1.3 full-size CPU card



TPM 2.0 Support

AMT 11.0

Intel®

DDR4

2666

Display

Dual

DP++

M.2

Dual GbE

LAN2: Intel® I211-AT PCIe controller (Co-lay I210-AT) External I/O Interface

PCIE-Q370-2019-V11

2 x USB 3.1 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)

1 x RS-422/485 (1x4 pin, P=2.0)

1. x USB 3.1 Gen 1 (5Gb/s) (2x10 pin) 3 x RS-232 (2x5 pin, P=2.54)

6 x SATA 6Gb/s (RAID 0/1/5/10 supported) 6 x USB 2.0 (2x4 pin, P=2.54)

Audio

Support 7.1 channel HD audio by IEI AC-KIT-892HD kit Front Panel

1. x Front panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)

LAN LED

1. x LAN LED (1x2 pin) TPM

1 x TPM (2x10 pin)

SMBus

1 x SMBus (1x4 pin) I²C

1 x I²C (1x4 pin)

Expansion

1 x M.2 M key

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

Diemension: 338 mm x 126 mm Weight: GW: 1000g / NW: 500g CE/FCC compliant

* LGA1151 Intel® 8th Generation Core™ i7/i5/i3, Celeron® and Pemtium® processor

supported

* Dual-channel DDR4 2666MHz
* Support VGA/HDMI and 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 PCIE-Q370-R10 single board computer | 1 x Mini jumper pack |
| 1 x SATA cable | 1 x QIG (Quick Installation Guide) |

***Ordering Information***

|  |  |
| --- | --- |
| Part No. | Description |
| PCIE-Q370-R11 | Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU per Intel® Q370, DDR4, Dual Intel® PCIe GbE, USB 3.1 Gen 1 (5Gb/s), SATA 6Gb/s, VGA, DP, M.2, HD Audio, iAMT and RoHS |
| PCIE-Q370-HDMI-R11\*\* | Full-size PICMG 1.3 CPU Card supports LGA1151 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU per Intel® Q370, DDR4, HDMI, DP, Dual Intel® PCIe GbE, USB 3.1, SATA 6Gb/s, M.2, HDAudio, iAMT and RoHS |
| 19800-000075-RS | PS/2 KB/MS cable with bracket, 220mm, P=2.0 |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P |
| AC-KIT-892HD-R10 | 7.1 channel HD Audio kit with Realtek ALC892 support dual audio streams |
| 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 |
| CF-1150SF-R10 | Special cooler kit for LGA1150, 1U chassis compatible, 54W |
| SAIDE-KIT01-R10 | SATA to IDE/CF Converter board |

\*\*By order production, MOQ: 100