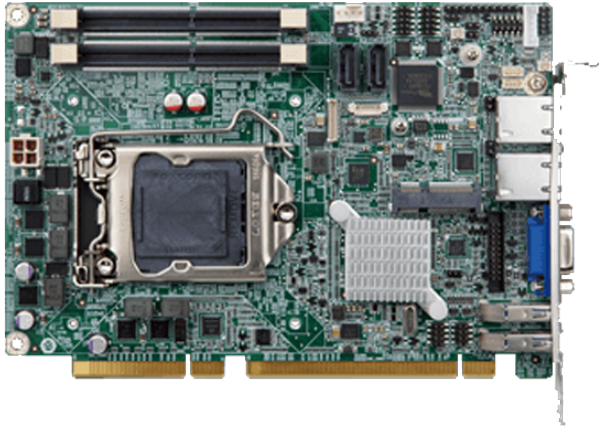


# HPCIE-Q170

Half-size PICMG 1.3 CPU Card supports LGA 1151 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q170,



## Features

- » PICMG 1.3 half-size CPU card
- » LGA 1151 Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- » Two 260-pin 1867/2133 MHz dual-channel DDR4 SO-DIMMs support up to 32 GB
- » Supports dual independent display by VGA & internal DP pin header
- » PCIe Mini supports mSATA & USB 2.0
- » Intel® PCIe GbE with Intel® AMT 11.0 supported
- » Supports RAID 0, 1 function via SATA 6Gb/s
- » IEI jumper-less function

## Specifications

| System                   |  |
|--------------------------|--|
| CPU                      | LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor  |
| Memory                   | Two 260-pin 1866/2133 MHz dual-channel DDR4 non-ECC unbuffered SO-DIMM   |
| Memory Max.              | 32GB   |
| Physical Characteristics |  |
| Dimensions (LxWxH) (mm)  | 169 X 126  |
| Net Weight               | 420g   |
| Storage                  |  |
| Storage                  | 2 x SATA :6Gb/s(RAID 0/1 support)<br>1 x mSATA :SATA & USB signal  |
| I/O Interface            |  |
| Display Output           | 1 x VGA :up to 1920x1200@60Hz<br>1 x iDP :interface for HDMI™, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)   |
| Ethernet                 | 2 x LAN :LAN1: Intel® I219LM Clarkville-V with Intel® AMT 11.0 support<br>LAN2: Intel® I211 PCIe controller  |
| Audio                    | Description: Support 7.1-channel HD Audio by IEI AC-KIT-892HD kit  |
| I/O Interface            | 2 x Internal RS-232/422/485 :2x5 pin, p=2.0<br>2 x External USB 3.2 Gen1x1<br>4 x Internal USB 2.0 :2x4 pin, p=2.0<br>1 x PS/2 :1x6 pin<br>1 x DIO :8-bit digital I/O (2x5 pin)                                |
| Expansion                | 1 x PCIe x16 : signal from CPU via golden finger<br>(supports x16, or x8 + x8, or x4 + x4 + x8)<br>1 x PCIe x4 : signal from Q170 via golden finger<br>1 x Full/Half-size PCIe Mini card slot (supports mSATA) |
| Power                    |  |
| Power Consumption        | 5V@0.15A, 12V@8.39A, 3.3V@0.11A, 5VSB@0.21A<br>(Intel® Core™ i7-6700K 4.0GHz with two 16 GB 2133 MHz DDR4 memory)  |

|                       |                             |
|-----------------------|-----------------------------|
| Power Supply          | 5V/12V, Support AT/ATX mode |
| Environment           |                             |
| Operating Temperature | -20°C ~ 60°C                |
| Humidity              | 5% ~ 95%, non-condensing    |
| Certifications        |                             |
| Safety & EMC          | CE/FCC compliant            |

## Ordering Information

|                |  |
|----------------|--|
| HPCIE-Q170-R10 | Half-size PICMG 1.3 CPU card supports LGA 1151 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® Q170, DDR4 SO-DIMM, VGA, iDP, Intel GbE, USB 3.0, mSATA, SATA, PCIe Mini, Intel® AMT and RoHS |
|----------------|--|

## Packing List

|                                      |                |
|--------------------------------------|----------------|
| 1 x HPCIE-Q170 single board computer | 1 x SATA cable |
| 1 x QIG                              |                |