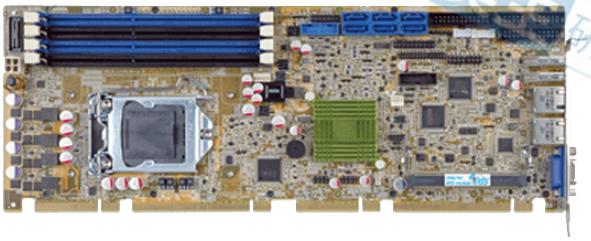
# PCIE-Q870

Full-size PICMG 1.3 CPU card supports LGA 1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87



## Features

» PICMG 1.3 full-size graphic grade solution

» LGA 1150 Intel® 4th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported

» Four 240-pin 1600/1333 MHz dual-channel DDR3 DIMMs support up to 32 GB memory

» Supports dual independent display by VGA & iDP interfaces

» Supports PCIe Mini devices and mSATA via PCIe Mini socket

» Intel® PCIe GbE with Intel® AMT 9.0 support

» Supports RAID function via SATA 6Gb/s

» TPM v1.2 hardware security function supported by TPM module

» Stiffener bars

» IEI jumper-less function

» Supports IPMI 2.0 via iRIS-2400 module

## Specifications

| | |
|---|---|
| System | |
| CPU | LGA 1150 Intel® 4th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported |
| Chipset | Intel® Q87 |
| Memory | Four 240-pin 1600/1333 MHz dual-channel unbuffered DDR3 & DDR3L SDRAM DIMMs |
| Memory Max. | 32GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 338 X 126 |
| Net Weight | 420g |
| Storage | |
| Storage | 1 x mSATA |
| I/O Interface | |
| Display Output | 1 x VGA :up to 1920x1200@60Hz |
| | 1 x iDP :for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz) |
| Ethernet | Description: LAN1: Intel® I217LM with Intel® AMT 9.0 support |
| | LAN2: Intel® I210-AT PCIe controller with NCSI support |
| Audio | Description: Supports 7.1-channel HD Audio by IEI AC-KIT-892HD-R10 kit |
| I/O Interface | 4 x Internal RS-232 :2x5 pin, p=2.54 |
| | 1 x Internal RS-422/485 :1x4 pin, P=2.0 |
| | 2 x External USB 3.2 Gen1x1 |
| | 8 x Internal USB 2.0 :4 X 2x4 pin, p=2.54, 4 X Golden finger |
| | 2 x Internal USB 3.2 Gen1x1 :2x10 pin |
| | 1 x PS/2 :1x6 pin |
| | 1 x LPT :2x13 pin |
| Expansion | Description: PCIe signal and PCI signal via golden finger |
| | 1 x PCIe mini Card Slot :supports mSATA |
| Other Features | |
| iRIS | 1 X iRIS-2400 slot |

| | |
|---|---|
| TPM | 2x10 pin |
| Power | |
| Power Consumption | 5V@3.55A, 12V@0.37A, Vcore_12V@7.61A, 3.3V@1.55A, 5VSB@0.13A (Intel® Core™ |
| | i7-4770K 3.90 GHz CPU with 16 GB (4x4 GB) 1333 MHz DDR3 memory) |
| Power Supply | 5V/12V, Support AT/ATX mode |
| Environment | |
| Operating Temperature | -20°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

昆仑佳科技 15323776600

## Ordering Information

| | |
|---|---|
| PCIE-Q870-i2-R10 | Full-size PICMG 1.3 CPU Card supports LGA1150 Intel Core™ i7/i5/i3/Pentium and Celeron CPU per Intel Q87,DDR3,VGA,IDP,Dual Intel PCIe GbE,SATA III,mSATA, mini PCIe,RS-232, Audio, iRIS-2400 and RoHS |

## Packing List

| | |
|---|---|
| 1 x PCIE-Q870-i2 single board computer | 1 x Dual RS-232 cable |
| 2 x SATA cable | 1 x USB 2.0 cable |
| 1 x QIG | |