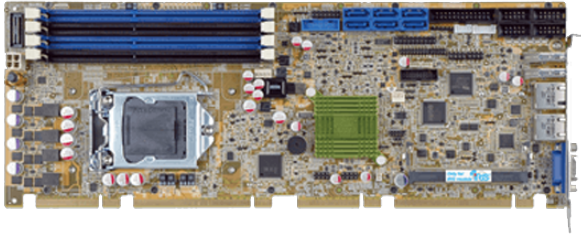


# PCIE-Q870

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

## 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
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## 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	