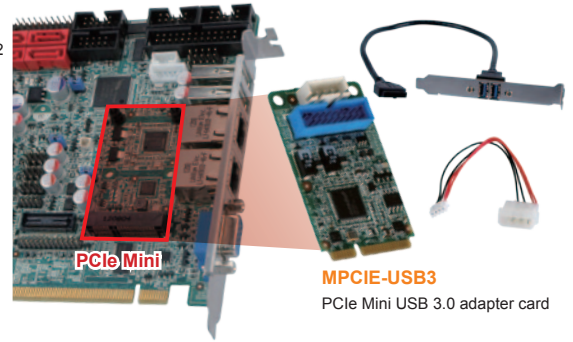
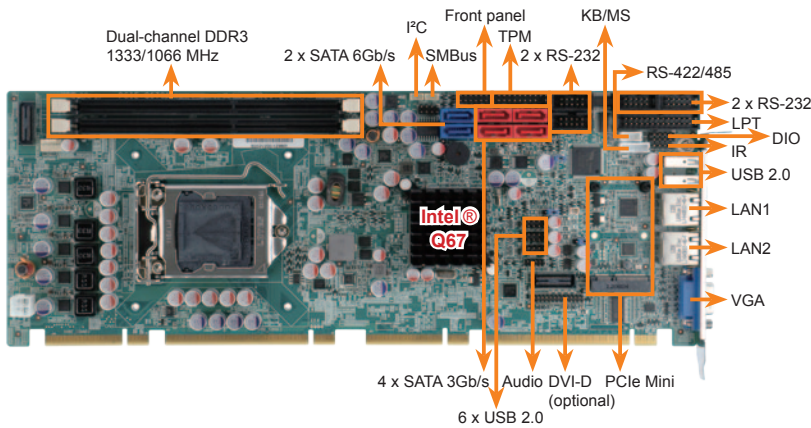


# PCIE-Q670-R20

Full-size PICMG 1.3 CPU Card supports LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q67, DDR3, VGA, DVI-D, Dual Intel® PCIe GbE, SATA 6Gb/s, PCIe Mini, HD Audio and RoHS



The PCIe Mini interface provides PCIe x1 and USB 1.1/2.0 signal for full-size or half-size devices such as PCIe Mini USB 3.0 adapter card (MPCIE-USB3) or wireless LAN cards.



IO-KIT-001-R20

DVI cable included in DVI model

## Specifications

- ◆ CPU  
LGA 1155 socket supports Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor
- ◆ PCH  
Intel® Q67
- ◆ Memory  
Two 240-pin 1066/1333 MHz dual-channel unbuffered DDR3 SDRAM DIMMs supported (system max. 16 GB)
- ◆ BIOS  
UEFI BIOS
- ◆ Graphics Engine  
Intel® HD Graphics Gen 6 supports DX10.1 and OpenGL 3.0  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
1 x VGA  
1 x DVI-D (via header to IO-KIT-001-R20 DVI-D/USB module) (optional)
- ◆ Ethernet  
LAN1: Intel® 82583V PCIe controller  
LAN2: Intel® 82579 PHY with Intel® AMT 7.0 support
- ◆ Super I/O  
Fintek F81866
- ◆ I/O Interface  
1 x 6-pin wafer for KB/MS 1 x LPT  
1 x RS-422/485 2 x SATA 6Gb/s (RAID 0/1/5/10 supported)  
4 x RS-232 4 x SATA 3Gb/s (RAID 0/1/5/10 supported)  
8 x USB 2.0 (2 by rear IO, 6 by on-board pin header)
- ◆ Front Panel  
1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- ◆ Audio  
Supported by IEI AC-KIT-892HD-R10 audio kit
- ◆ TPM  
1 x TPM connector (2x10 pin)
- ◆ SMBus  
1 x 4-pin wafer
- ◆ Infrared Interface  
1 x 5-pin header
- ◆ Expansions  
PCIe signal and PCI signal via golden finger  
1 x PCIe Mini slot (with USB 1.1/2.0 signal)
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O  
8-bit digital I/O
- ◆ Fan Connector  
1 x 4-pin smart fan connector
- ◆ Power Supply  
AT/ATX power supply supported
- ◆ Power Consumption  
5V@3.45A, 12V@0.32A, Vcore\_12V@5.24A, 3.3V@1.69A, 5VSB@0.17A (3.4GHz Intel® Core™ i7-2600K with two 2 GB 1333 MHz DDR3 memory)
- ◆ Operating Temperature  
-10°C ~ 60°C
- ◆ Storage Temperature  
-20°C ~ 70°C
- ◆ Operating Humidity  
5% ~ 95%, non-condensing
- ◆ Dimensions  
338 mm x 126 mm
- ◆ Weight  
GW: 1200g/NW: 420g

## Features

- ◆ PICMG 1.3 full-size graphics grade solution
- ◆ LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processors supported
- ◆ Up to 16 GB 1333 MHz dual-channel DDR3 SDRAM
- ◆ Supports dual independent display by VGA and DVI-D (DVI model)
- ◆ Supports PCIe Mini expansion
- ◆ Intel® PCIe GbE with Intel® AMT 7.0 support
- ◆ Supports SATA 6Gb/s
- ◆ Supports RAID function via SATA 6Gb/s and SATA 3Gb/s
- ◆ TPM v1.2 hardware security provided by the TPM module
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

1 x PCIE-Q670 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	
1 x USB cable (P/N: 19800-003100-300-RS)	1 x Mini jumper pack
4 x SATA cable (P/N: 32000-062800-RS)	1 x QIG (Quick Installation Guide)
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
PCIE-Q670-R20	Full-size PICMG 1.3 CPU card supports LGA 1155 32nm Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q67, DDR3, VGA, dual Intel® PCIe GbE, SATA 6Gb/s, PCIe Mini, HD Audio and RoHS
PCIE-Q670-DVI-R20	Full-size PICMG 1.3 CPU card supports LGA 1155 32nm Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® Q67, DDR3, DVI-D, dual Intel® PCIe GbE, SATA 6Gb/s, PCIe Mini, HD Audio and RoHS
19800-000049-RS	LPT cable
19800-000075-RS	KB/MS cable with bracket
32102-000100-200-RS	SATA power cable
32205-003800-300-RS	RS-422/485 cable, 200mm
AC-KIT-892HD-R10	7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams
CF-1156A-RS-R11	High-performance LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-R11	High-performance LGA 1155/LGA 1156 cooler kit, 95W
CPU-DT-C-G440	Intel® Celeron® G440 processor, LGA 1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2120T	Intel® Core™ i3-2120T processor, LGA 1155, dual core 2.6GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2390T	Intel® Core™ i5-2390T processor, LGA 1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2500T	Intel® Core™ i5-2500T processor, LGA 1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-1156C-RS CPU cooler
CPU-DT-P-G630T	Intel® Pentium® G630T processor, LGA 1155, dual core 2.3GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
SAIDE-KIT01-R10	SATA to IDE/CF converter board