PCIE-Q870-i2

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 6Gb/s, mSATA, PCIe Mini, RS-232, Audio, IRIS-2400 and RoHS

Specifications

- CPU: LGA1150 Intel® 4th generation Core™ (i7/i5/i3), Pentium® or Celeron® processor supported
- System Chipset: Intel® Q87
- Memory: Four 240-pin 1600/1333MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 32GB
- BIOS: UEFI BIOS
- Graphics Engine: Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenGL 3.2
- Full MPEG2, VC1, AVC Decode
- Display Output: VGA (up to 1920x1200 @ 60 Hz) IDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160 @ 60 Hz)
- Ethernet: GB1: Intel® I217LM with Intel® AMT 9.0 support
- GB2: Intel® I210-AT PCIe controller with NCSI support
- Super I/O: Fintek F8186
- I/O Interface: 4 x RS-232, 1 x RS-422/485, 1 x LPT, 1 x 6-pin wafer for KB/MS, 1 x mSATA (colay SATA port 6) (support SATA 6Gb/s signal only), 6 x SATA 6Gb/s (RAID 0, 1, 5, 10 supported), 6 x USB 2.0 (4 by pin header, 4 by backplane pin header), 4 x USB 3.0 (2 by rear IO, 2 by pin header)
- Front Panel: 1 x Front panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- LAN LED: 2 x 2-pin headers for LAN1 Link LED, LAN2 Link LED
- Audio: Supported by IEI AC-KIT-892HD Audio Kit
- TPM: 1 x 20-pin (2x10) header
- SMBus: 1 x 4-pin wafer
- I2C: 1 x 4-pin wafer
- Infrared Interface: 1 x 5-pin header
- IRIS Remote Management Module: 1 x IRIS-2400 slot
- Expansion: PCIe channel and PCI signal via golden finger
- PCI channel by ITE 8892 (PCIe to PCI bridge)
- 1 x Full-size PCIe Mini card slot (colay mSATA)
- Watchdog Timer: Software programmable, support 1~255 sec. system reset
- Digital I/O: 8-bit digital I/O (4-bit input, 4-bit output)
- Fan Connector: 1 x 4-pin smart fan connector (CPU fan)
- 1 x 4-pin smart fan connector (system fan)
- Power Supply: 5V/12V ATX/ATX support
- Power Consumption: 5V@3.35A, 12V@0.37A, Voore, 12V@0.76A, 3.3V@1.55A, 5VBB@0.13A (Intel® Core™ i7/4770K 3.90 GHz CPU with 16GB (4x4GB) 1333MHz DDR3 memory)
- Operating Temperature: -20°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 338 mm x 126 mm
- Weight: GW 1200g / NW 420g

Features

- 1. PICMG 1.3 full-size graphic grade solution
- 2. LGA1150 Intel® 4th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- 3. Four 240-pin 1600/1333MHz dual-channel DDR3 DIMMs support up to 32GB memory
- 4. Supports dual independent display by VGA & DP interface
- 5. Supports PCIe Mini devices and mSATA via PCIe Mini socket
- 6. Intel® PCIe GbE with Intel® AMT 9.0 support
- 7. Supports RAID function via SATA 6Gb/s
- 8. TPM V1.2 hardware security function supported by TPM module
- 9. Stifferen bars
- 10. IEI jumper-less function
- 11. Support IPMI 2.0 via IRIS-2400 module

Packing List

1 x PCIE-Q870-i2 single board computer
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
2 x SATA cable (P/N: 32000-062800-RS)
1 x USB 2.0 cable (P/N: 19800-003100-100-RS)
1 x Utility CD
1 x QIG (Quick Installation Guide)

Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>PCIE-Q870-i2-R10</td>
<td>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 6Gb/s, mSATA, PCIe Mini, RS-232, Audio, IRIS-2400 and RoHS</td>
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<tr>
<td>IRIS-2400-R10</td>
<td>IPMI 2.0 adapter card with AST2400 BMC chipset for DDR3 SO-DIMM socket interface</td>
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<tr>
<td>CF-1105SB-R10</td>
<td>Special cooler kit for LGA1150, high-performance compatible, 65W</td>
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<tr>
<td>CF-1105SC-R10</td>
<td>Special cooler kit for LGA1150, 1U chassis compatible, 65W</td>
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<tr>
<td>CF-1105SE-R10</td>
<td>Special cooler kit for LGA1150, high-performance compatible, 95W</td>
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<tr>
<td>DP-DVI-R10</td>
<td>DisplayPort to DVI-D converter board (for IEI iDP connector)</td>
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<tr>
<td>DP-HDMI-R10</td>
<td>DisplayPort to HDMI converter board (for IEI iDP connector)</td>
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<tr>
<td>DP-LVDS-R10</td>
<td>DisplayPort to LVDS converter board (for IEI iDP connector)</td>
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<tr>
<td>DP-VGA-R10</td>
<td>DisplayPort to VGA converter board (for IEI iDP connector)</td>
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<tr>
<td>AC-KIT-892HD-R10</td>
<td>7.1 channel HD Audio kit with Realtek ALC892 support dual audio streams</td>
</tr>
<tr>
<td>TPM-INO1-R11</td>
<td>20-pin Infineon TPM module, software management tool, firmware V3.17</td>
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