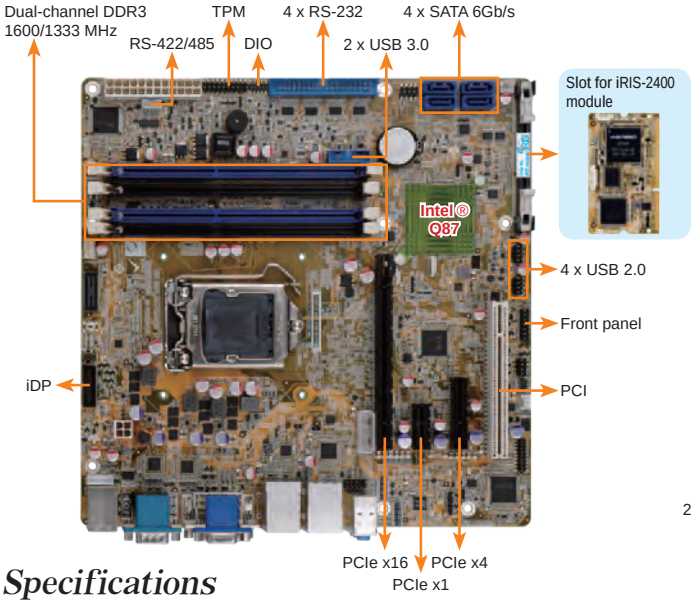
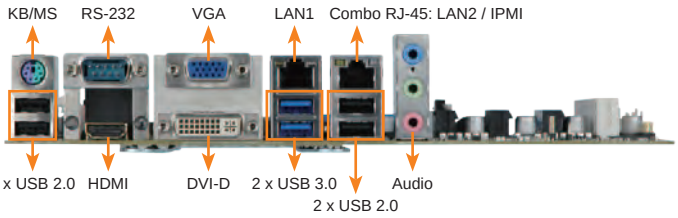
IMB-Q870-i2

microATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87, DDR3, HDMI, DVI-D, VGA, iDP, USB 3.0, SATA 6Gb/s, Six Serial Ports, iRIS-2400



New and More Powerful Graphics

2nd Generation Intel® Core Processor (Sandy Bridge)	3rd Generation Intel® Core Processor (Ivy Bridge)	4th Generation Intel® Core Processor (Haswell)	
Intel® HD Graphics 3000 series	Intel® HD Graphics 4000 series	GT3- Intel® HD Graphics 5000 series	Core i7
Intel® HD Graphics 2000 series	Intel® HD Graphics 2500 series	GT2- Intel® HD Graphics 4000 series	Core i5/ Core i3
Intel® HD Graphicsseries	Intel® HD Graphicsseries	GT1- Intel® HD Graphics series	Celeron/ Pentium



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
- Ethernet
  LAN1: Intel® I217LM with Intel® AMT 9.0 support
  LAN2: Intel® I210-AT PCIe controller with NCSI support
- Graphics Engine
  Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenCL 1.2, OpenGL 3.2
  Full MPEG2, VC1, AVC Decode
- Display Output
  VGA (up to 1920x1200 @ 60 Hz)
  DVI-D (up to 2560x1600 @ 60 Hz)
  HDMI (up to 2560x1600 @ 60 Hz)
  iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160 @60 Hz)
- Super I/O
  Fintek F81866
- Audio
  Realtek ALC662 HD Audio codec (Line-in, Line-out, Mic)
- I/O Interface
  5 x RS-232 — 4 x USB 3.0 (2 on rear, 2 by pin header)
  1 x RS-422/485 — 8 x USB 2.0 (4 on rear, 4 by pin header)
  1 x 6-pin wafer for PS/2 KB/MS — 4 x SATA 6Gb/s (RAID 0/1/5/10 support)
  1 x PS/2 KB/MS connector (rear I/O)
- Front Audio
  1 x 10-pin (2x5) 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
- TPM
  1 x 20-pin (2x10) header
- SMBus
  1 x 4-pin (1x4) wafer
- I2C
  1 x 4-pin (1x4) wafer
- iRIS Remote Management Module
  1 x iRIS-2400 slot
- Expansion
  1 x PCIe x16 slot (Gen 3) — 1 x PCIe x4 slot
  1 x PCIe x1 slot — 1 x PCI slot
- 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 CPU fan connector
  2 x 3-pin system fan connector
- Power Supply: ATX power supply
- Power Consumption
  3.3V@0.53A, 5V@4.96A, 12V@0.12A, Vcore_12V@3.95A, 5VSB@0.18A
  (Intel® Core™ i7-4770K 3.90 GHz CPU with 16GB (4x4GB) 1333MHz DDR3 memory)
- Operating Temperature: -20°C ~ 60°C
- Storage Temperature: -30°C ~ 70°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 244mm x 244mm
- Weight: GW:1200g, NW: 700g

Features

1. LGA1150 Intel® 4th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
2. Dual-channel DDR3 1600/1333MHz supported
3. Intel® PCIe GbE with Intel® AMT 9.0 support
4. Support triple display via HDMI, DVI, VGA and iDP
5. Support PCI Express generation 3.0 at 8GT/s I/O bandwidth
6. USB 3.0 and SATA 6Gb/s supported
7. IEI jumper-less function
8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery
9. Support IPMI 2.0 via iRIS-2400 module

Packing List

1 x IMB-Q870-i2 single board computer	
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x I/O shielding (P/N: 45014-0046C0-00-RS)	1 x QIG

Ordering Information

Part No.	Description
IMB-Q870-i2-R10	microATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3/Pentium® and Celeron® CPU per Intel® Q87, DDR3, HDMI, DVI-D, VGA, DP, Dual Intel® PCIe GbE, USB 3.0, Audio, SATA 6Gb/s, Six Serial Ports, iRIS-2400 and RoHS
iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
19800-003100-300-RS	Dual-port USB 2.0 cable with bracket
19800-010500-200-RS	USB 3.0 cable 457mm with bracket
32205-003800-300-RS	RS-422/485 cable, 200mm
32205-001203-200-RS	RS-232 cable, 40-pin to four DB-9
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 220mm
19800-000049-RS	LPT cable
CF-1156A-RS-R11	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156E-R11	High performance LGA1155/LGA1156 cooler kit, 95W
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17