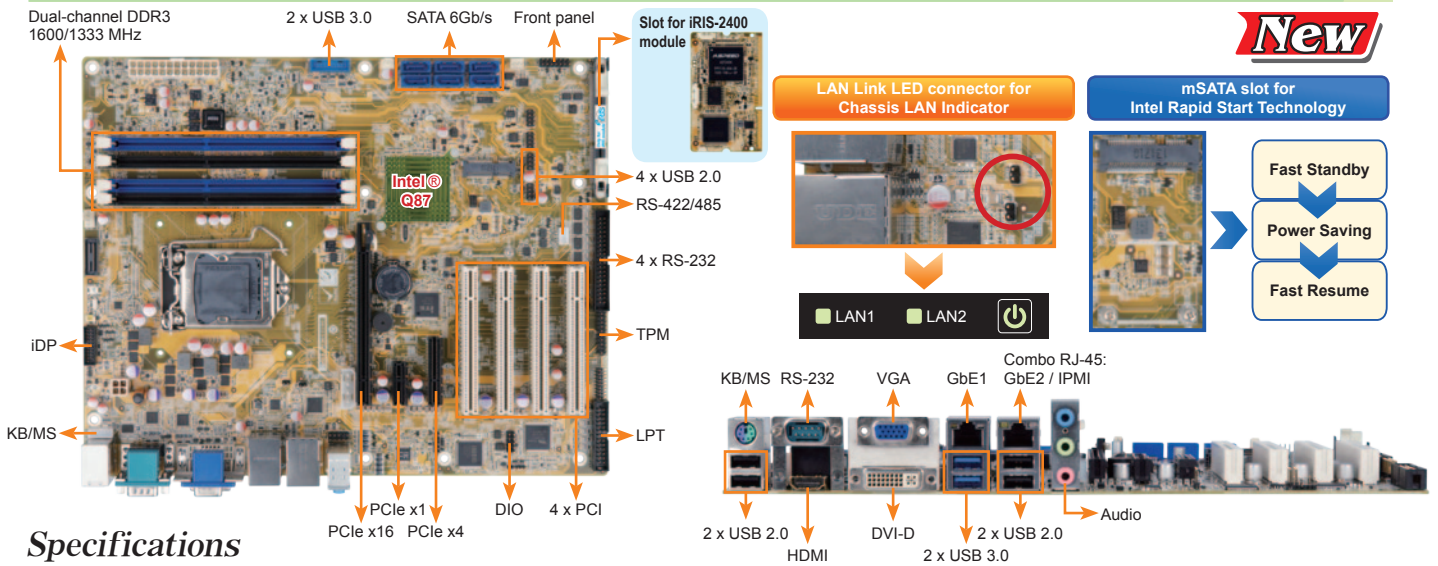


# IMBA-Q870-i2

ATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87, DDR3, Triple Independent Display VGA, DVI-D, HDMI, iDP, Dual Intel® GbE, USB 3.0, SATA 6Gb/s, 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
- Ethernet  
GbE1: Intel® I217LM with Intel® AMT 9.0 support  
GbE2: 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  
1 x RS-422/485  
1 x LPT  
1 x mSATA (colay SATA port 6) (support SATA 6Gb/s signal only)  
1 x 6-pin wafer for PS/2 KB/MS
- Front Audio  
2 x 5-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
- TPM  
1 x 20-pin (2x10) header
- SMBus  
1 x 4-pin wafer
- i2C  
1 x 4-pin wafer
- iRIS Remote Management Module  
1 x iRIS-2400 slot
- Expansion  
1 x PCIe x16 slot (Gen 3)  
1 x PCIe x1 slot  
1 x PCIe x4 slot  
4 x PCI slots
- 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@0.66A, 5V@4.34A, 12V@0.16A, Vcore\_12V@4.01A, 5VSB@0.21A (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: 244mm x 305mm
- Weight: GW:1200g, NW: 700g



## Features

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

## Packing List

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

## Ordering Information

Part No.	Description
IMBA-Q870-i2-R10	ATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87, DDR3, Three Independent Displays VGA/DVI-D/HDMI/iDP, Dual Intel® GbE, USB 3.0, SATA 6Gb/s, Audio, iRIS-2400 and RoHS
iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
19800-003100-200-RS	Dual-port USB cable with bracket
19800-010500-100-RS	USB 3.0 cable 457mm with bracket
32205-003800-100-RS	RS-422/485 cable, 200mm
19800-000051-RS	RS-232 cable, 230mm (P=2.54)
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