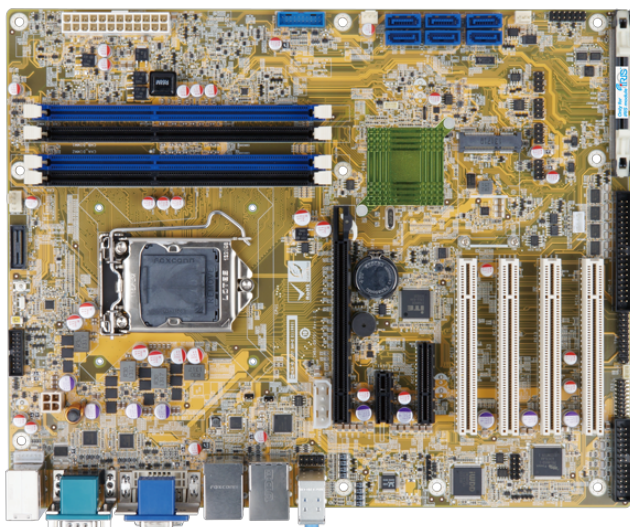


# IMBA-Q870

ATX motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87



## Features

- » LGA1150 4th generation Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- » Dual-channel DDR3 1600/1333 MHz
- » 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

## Specifications

| System                   |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| CPU                      | LGA1150 4th generation Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported |
| Chipset                  | Intel® Q87                                                                             |
| Memory                   | Four 240-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs            |
| Memory Max.              | 32GB                                                                                   |
| Physical Characteristics |                                                                                        |
| Dimensions (LxWxH) (mm)  | 244 X 305                                                                              |
| Net Weight               | 700g                                                                                   |
| Storage                  |                                                                                        |
| Storage                  | 6 x SATA :6Gb/s(RAID 0/1/5/10 supported)                                               |
|                          | 1 x mSATA :colay SATA 6                                                                |
| I/O Interface            |                                                                                        |
| Display Output           | 1 x VGA :up to 1920x1200@60Hz                                                          |
|                          | 1 x DVI-D :up to 2560x1600@60Hz                                                        |
|                          | 1 x HDMI™ :up to 2560x1600@60Hz                                                        |
|                          | 1 x iDP :interface for HDMI™, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)                |
| Ethernet                 | 2 x LAN :LAN1: Intel® I217LM with Intel® AMT 9.0 support                               |
|                          | LAN2: Intel® I210-AT PCIe controller with NCSI support                                 |
| Audio                    | Description: Realtek ALC662 HD codec supports 5.1-channel                              |
|                          | 1 x Line in :on rear IO                                                                |
|                          | 1 x Line out :on rear IO                                                               |
|                          | 1 x Mic :on rear IO                                                                    |
|                          | 1 x Front Audio :2x5 pin                                                               |
| I/O Interface            | 1 x External RS-232                                                                    |
|                          | 4 x Internal RS-232 :2x20 pin, p=2.54                                                  |
|                          | 1 x Internal RS-422/485 :1x4 pin, p=2.54                                               |
|                          | 3 x External USB 2.0                                                                   |
|                          | 4 x External USB 3.2 Gen1x1                                                            |
|                          | 4 x Internal USB 2.0 :2x4 pin, p=2.54                                                  |
|                          | 2 x Internal USB 3.2 Gen1x1 :2x10 pin, p=2.0                                           |

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
|                       | 2 x PS/2 :1 X 1x6 pin                                                         |
|                       | 1 x LPT :2x13 pin, p=2.54                                                     |
| Expansion             | 1 x PCIe x16 :Gen3                                                            |
|                       | 1 x PCIe x4                                                                   |
|                       | 1 x PCIe x1                                                                   |
|                       | 1 x PCI Slot                                                                  |
| Other Features        |                                                                               |
| iRIS                  | 1 X iRIS-2400 slot                                                            |
| TPM                   | 2x10 pin                                                                      |
| Power                 |                                                                               |
| 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 16 GB (4x4 GB) 1333 MHz DDR3 memory) |
| Power Supply          | Support 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

|                   |                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| IMBA-Q870-ECO-R10 | LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU per Intel® Q87, DDR3, Triple Independent Display VGA/DVI-D/HDMI™/iDP, USB 3.0, SATA 6Gb/s, ECO packing and RoHS                                          |

## Packing List

|                                        |                |
|----------------------------------------|----------------|
| 1 x IMBA-Q870-i2 single board computer | 2 x SATA cable |
| 1 x I/O shielding                      | 1 x QIG        |