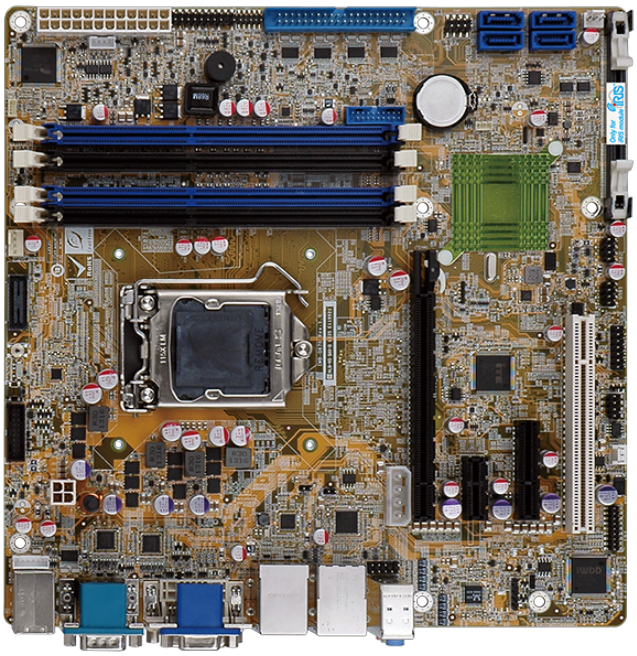
Embedded Computer > Single Board Computer > Industrial Motherboard

IMB-Q870

microATX 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 supported

» Intel® PCIe GbE with Intel® AMT 9.0 support

» Support triple display via HDMI, DVI, VGA and iDP

» Support PCI Express generation 3.0 at 8GT/s I/O bandwidth

» USB 3.0 and SATA 6Gb/s 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 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)
Audio	Description: Realtek ALC662 HD Audio 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
	4 x External USB 2.0
	2 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

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	2 x PS/2 :1 X 1X6 pin
Expansion	1 x PCIe x16 :Gen 3
	1 x PCIe x4
	1 x PCIe x1
	4 x PCI Slot
Other Features	
TPM	2x10 pin
iRIS	1 X iRIS-200 slot
Power	
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 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

IMB-Q870-i2-R10	Micro ATX 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,SATA 6Gb/s,Six Serial Ports, Audio, iRIS-2400 and RoHS

Packing List

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