

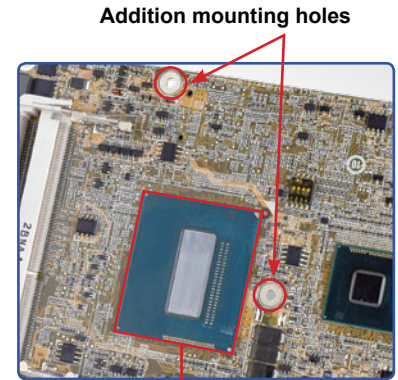
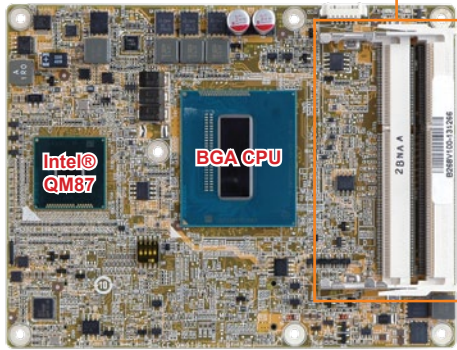
**TYPE 6**

# ICE-QM871

COM Express Basic Type 6 Module, Intel® Haswell Mobile BGA Processor, VGA, LVDS, DisplayPort, HDMI, SATA 6Gb/s, USB 3.0, GbE, and HD Audio, RoHS

**New**

Dual-Channel DDR3 1333/1066 MHz



Addition mounting holes

4th Generation Intel® Core™ BGA CPU



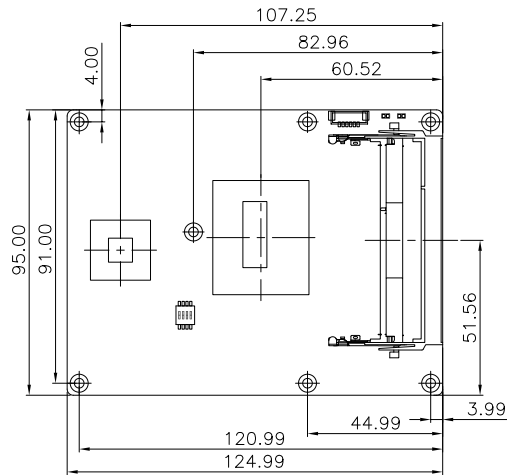
## Specifications

- ◆ CPU  
BGA 1364 type for Intel® 22nm Haswell processor
- ◆ PCH  
Intel® QM87
- ◆ Memory  
Two 240-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMM supported (system max. 16GB)  
Support 1.35V DDR3L
- ◆ BIOS  
UEFI BIOS
- ◆ Graphics Engine  
Intel® HD Graphics Gen 7 support for DX11 and OpenCL 1.1  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
1 x DDI: DisplayPort/HDMI/DVI  
1 x DDI: DisplayPort/HDMI/DVI  
1 x DDI: embedded DP  
1 x CRT up to QXGA (2048x1536)  
1 x Dual-channel 18/24-bit LVDS
- ◆ Ethernet  
Intel® Clarkville-V I217LM with Intel® AMT 9.0 support
- ◆ Embedded Controller  
iWDD
- ◆ I/O Interface  
2 x RS-232 to baseboard                      4 x SATA 6GB/s signal to baseboard  
4 x USB 2.0 to baseboard                      4 x USB 3.0 to baseboard (with 4 x USB 2.0)
- ◆ Audio  
High Definition Audio interface
- ◆ SMBus  
YES, to base board
- ◆ I2C  
YES, to base board
- ◆ LPC  
YES, to base board
- ◆ Expansion  
1 x PCIe x16 signal to base board  
7 x PCIe x1 signal to base board
- ◆ Watchdog Timer  
Software programmable support 1~255 sec. system reset
- ◆ GPIO  
8-bit GPIO to baseboard
- ◆ TPM  
Through baseboard
- ◆ Intel® AMT  
Support Intel® AMT 9.0
- ◆ Power Consumption  
+12V1@ 1.86A, +12V2@ 3.70A  
(Intel® Core™ i7-4700EQ 2.4GHz CPU with two 1333MHz 4GB DDR3 memory)
- ◆ Operating Temperature  
-20°C ~ 65°C
- ◆ Operating Humidity  
5% ~ 95%, non-condensing
- ◆ Dimensions  
95 mm x 95 mm
- ◆ Weight  
GW: 600g / NW: 250g

## Features

1. Intel® Haswell mobile processors supported
2. Intel® HD Graphics technology integrates high-performance graphics and media processing
3. Dual-channel DDR3 1600/1333 supports up to 16GB
4. Support 1.35V DDR3L
5. 18/24-bit dual-channel LVDS, analog CRT, three MHz DDI supported
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery
7. Support AMT 9.0

## Dimensions (Unit: mm)



## Packing List

1 x ICE-QM871 single board computer	1 x Heat Spreader
1 x Cooler	1 x Utility CD
1 x Driver CD	1 x QIG (Quick Installation Guide)

## Ordering Information

Part No.	Description
ICE-QM871-i7-R10	COM Express Basic Type 6 module, Intel® Core™ i7 processor, VGA/LVDS, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS
ICE-QM871-i5-R10	COM Express Basic Type 6 module, Intel® Core™ i5 processor, VGA/LVDS, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS
ICE-QM871-i3-R10	COM Express Basic Type 6 module, Intel® Core™ i3 processor, VGA/LVDS, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS
ICE-QM871-C-R10	COM Express Basic Type 6 module, Intel® Celeron® processor, VGA/LVDS, GbE, SATA 6Gb/s, USB 3.0, Audio and RoHS
ICE-DB-T6R-R10	Base Board for COM Express Type 6 Module COM.0 Rev. 2.1, support PICMG EAPI R1.0