

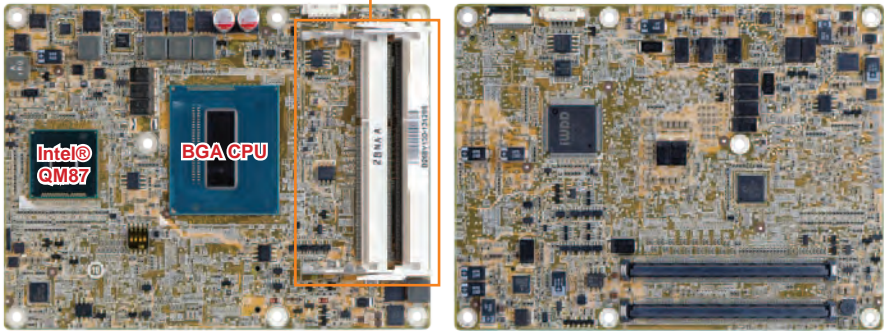


# ICE-QM871

COM Express Basic Type 6 Module Supports Intel® 22nm 4th Generation Mobile Core™ Processor, VGA, LVDS, DDI, GbE, PCIe Gen3, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS

Dual-channel DDR3 1333/1066 MHz

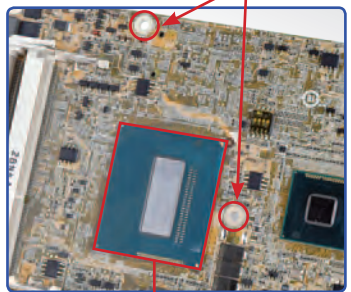
Com Express Rev 2.1 Type 6 Pinout



D	4 ports USB 3.0	2 lanes PCIe x 1	DDI 1	DDI 2	DDI 3	PCIe x16	12V		
B	LPC SMB PC	4 ports SATA	Audio	8 ports USB 2.0	6 lanes PCIe x1	LVDS B	VGA	5VSB	12V
A	GBE					LVDS A	Others	SPI	2 ports serial Type 12V



Addition mounting holes for better contact with heat spreader



4th Generation Intel® Core™ BGA CPU

## Specifications

- ◆ CPU
  - Intel® mobile Core™ i7-4700EQ on-board processor with Intel® AMT 9.0 support (2.4GHz, quad-core, 6MB cache, TDP=47W)
  - Intel® mobile Core™ i5-4402E on-board processor with Intel® AMT 9.0 support (1.6GHz, dual-core, 3MB cache, TDP=25W)
  - Intel® mobile Core™ i3-4102E on-board processor (1.6GHz, dual-core, 3MB cache, TDP=25W)
  - Intel® mobile Celeron® 2002E on-board processor (1.5GHz, dual-core, 2MB cache, TDP=25W)
  - Intel® mobile Core™ i5-4400E on-board processor with Intel® AMT 9.0 support (2.7GHz, dual-core, 3MB cache, TDP=37W) (by request)
  - Intel® mobile Core™ i3-4100E on-board processor (2.4GHz, dual-core, 3MB cache, TDP=37W) (by request)
  - Intel® mobile Celeron® 2000E on-board processor (2.2GHz, dual-core, 2MB cache, TDP=37W)(by request)
- ◆ System Chipset
  - Intel® QM87
- ◆ Memory
  - Two 204-pin 1600/1333MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16GB
- ◆ BIOS
  - UEFI BIOS
- ◆ 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
  - 3 x DDI: DisplayPort/HDMI/DVI (up to 2560x1600 @ 60 Hz) (to baseboard)
  - 1 x VGA (up to 1920x1200 @ 60 Hz) (to baseboard)
  - 1 x Dual-channel 18/24-bit LVDS (up to 1920x1200@60 Hz) (to baseboard)
- ◆ Ethernet
  - LAN: Intel® I217LM Clarkville-V with Intel® AMT 9.0 support
- ◆ I/O Interface
  - 2 x RS-232 (to baseboard)                      4 x SATA 6Gb/s signal (to baseboard)
  - 8 x USB 2.0 (to baseboard)                      4 x USB 3.0 (to baseboard)
- ◆ Audio
  - High Definition Audio interface
- ◆ SMBus
  - YES (to baseboard)
- ◆ I2C
  - YES (to baseboard)
- ◆ LPC
  - YES (to baseboard)
- ◆ Expansion
  - 1 x PCIe x16 signal (to baseboard)
  - 7 x PCIe x1 signal (to baseboard)
- ◆ Watchdog Timer
  - Software programmable, support 1-255 sec. system reset
- ◆ GPIO
  - 8-bit GPIO
- ◆ Power Consumption
  - +12V1@ 1.86A, +12V2@ 3.70A
  - (Intel® Core™ i7-4700EQ 2.4GHz CPU 8GB (2 x 4GB) 1333MHz DDR3 memory)
- ◆ Operating Temperature
  - 20°C ~ 60°C
- ◆ Storage Temperature
  - 30°C ~ 70°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 125mm x 95mm
- ◆ Weight
  - GW: 600g / NW: 250g

## Features

1. 4th generation Intel® mobile Core™ i7/i5/i3 or Celeron® on-board processor
2. Intel® HD Graphics technology integrates high-performance graphics and media processing
3. Dual-channel DDR3 1600/1333 support up to 16GB
4. Support 1.5V/1.35V DDR3 SO-DIMM
5. 18/24-bit dual-channel LVDS, analog CRT and three DDI supported
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery
7. Support AMT 9.0

## Packing List

1 x ICE-QM871 single board computer
1 x Heat spreader
1 x Utility CD
1 x Cooler
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 supports Intel® 22nm 4th Generation Mobile Core™ i7-4700EQ processor (47W), VGA, LVDS, DDI, GbE, PCIe Gen3, AMT 9.0, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS
ICE-QM871-i5E-R10	COM Express Basic Type 6 module supports Intel® 22nm 4th Generation Mobile Core™ i5-4402E processor (25W), VGA, LVDS, DDI, GbE, PCIe Gen3, AMT 9.0, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS
ICE-QM871-i3E-R10	COM Express Basic Type 6 module supports Intel® 22nm 4th Generation Mobile Core™ i3-4102E processor (25W), VGA, LVDS, DDI, GbE, PCIe Gen3, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS
ICE-QM871-CE-R10	COM Express Basic Type 6 module supports Intel® 22nm 4th Generation Celeron® Mobile 2002E processor (25W), VGA, LVDS, DDI, GbE, PCIe Gen3, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS
ICE-DB-T6R-R10	Base Board for COM Express Type 6 Module COM.0 Rev. 2.1, support PICMG EAPI R1.0

