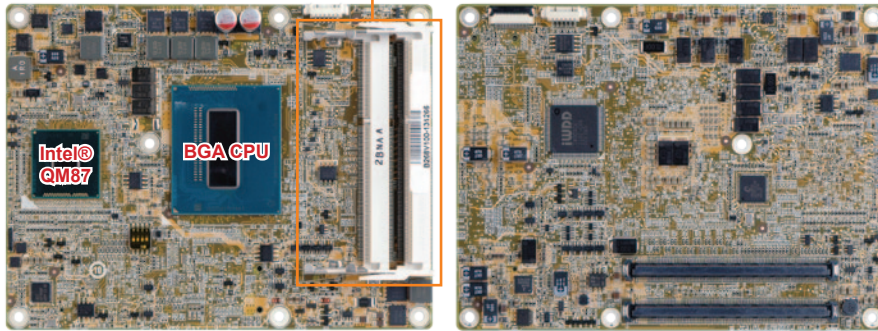


TYPE 6

ICE-QM871

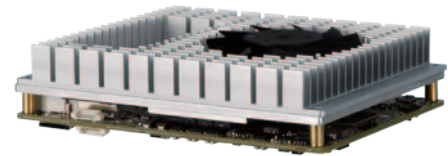
COM Express Basic Type 6 Module Supports Intel® 22nm 4th Generation Mobile Core™ Processor, VGA, LVDS, DDI, GbE, PCIe Gen3, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS

Dual-channel DDR3 1333/1066 MHz

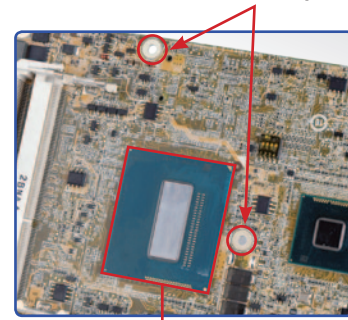


Com Express Rev 2.1 Type 6 Pinout

| | | | | | | | |
|---|--------------------|---------------------|-------|--------------------|--------------------|------------------|--------------------------------------|
| 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 |

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