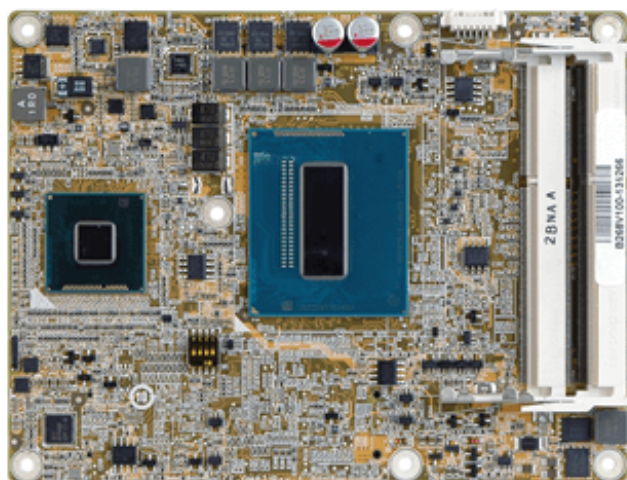


## ICE-QM871

COM Express Basic Type 6 Module Supports Intel® 22nm 4th Generation Mobile Core™ Processor



## Features

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

## Specifications

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| BIOS                  |                                                                                                      |
| BIOS                  | UEFI BIOS                                                                                            |
| Display               |                                                                                                      |
| 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)                               |
| Environment           |                                                                                                      |
| Humidity              | 5% ~ 95%, non-condensing                                                                             |
| Operating Temperature | -20°C ~ 60°C                                                                                         |
| I/O Interface         |                                                                                                      |
| Ethernet              | LAN: Intel® I217LM Clarkville-V with Intel® AMT 9.0 support                                          |
| Expansion             | 1 x PCIe x16 signal (to baseboard)                                                                   |
|                       | 7 x PCIe x1 signal (to baseboard)                                                                    |
| GPIO                  | 8-bit GPIO                                                                                           |
| I/O Interface         |                                                                                                      |
| I/O Interface         | 8 x USB 2.0                                                                                          |
|                       | 2 x RS-232                                                                                           |
|                       | 4 x SATA 6Gb/s                                                                                       |
|                       | 4 x USB 3.0                                                                                          |
|                       | I²C                                                                                                  |
|                       | SMBus                                                                                                |
| Power                 |                                                                                                      |
| Power consumption     | +12V1@1.86A, +12V2@3.70A                                                                             |
|                       | (Intel® Core™ i7-4700EQ 2.4GHz CPU with 8 GB (two 4 GB) 1333 MHz DDR3 memory)                        |
| System                |                                                                                                      |
| Chipset               | Intel® QM87                                                                                          |
| CPU                   | Socket G2 for 2nd & 3rd 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) generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor |
| Memory Max.    | Two 204-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16 GB                   |
| Watchdog Timer |                                                                                                                  |
| Watchdog Timer | Software programmable, support 1~255 sec. system reset                                                           |

## Ordering Information

|                   |                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICE-QM871-i7-R10  | COM Express Basic Type 6 module supports Intel® 22nm 4th Generation Mobile Core™ i7-4700EQ processor(45W),VGA,LVDS,DDI,GbE,PCIE Gen3,SATAIII,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,SATAIII,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,SATAIII,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,SATAIII,USB 3.0 and HD Audio,RoHS  |