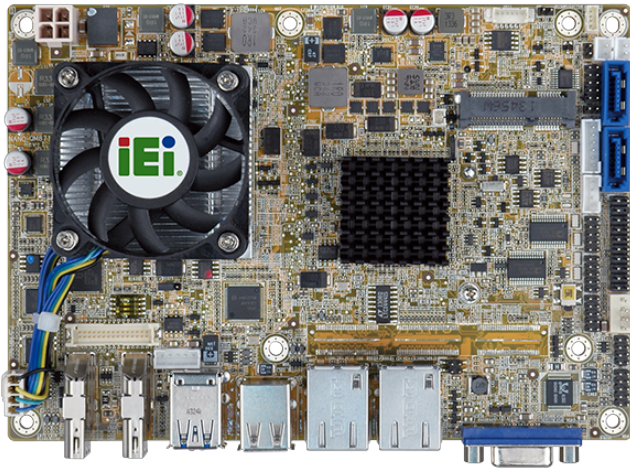


# NANO-QM871-i1

EPIC SBC supports 4th Generation Intel® Mobile Processor



## Features

- » 4th generation Intel® mobile Core™ i7/i5/i3 or Celeron® on-board processor
- » IEI jumper-less function
- » Triple independent display via dual HDMI+VGA, dual HDMI+LVDS or HDMI+LVDS+VGA
- » DDR3/DDR3L 1600/1333 MHz SDRAM support up to 8 GB
- » COM, USB 3.0, SATA 6Gb/s and audio support
- » Intel® GbE LAN with Intel® AMT 9.0 support
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery
- » Support IPMI 2.0 with iRIS-1010 module

## Specifications

| System                   |  |
|--------------------------|--|
| 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™ i5-4400E on-board processor with Intel® AMT 9.0 support (2.7GHz, dual-core, 3MB cache, TDP=37W)  |
|                          | Intel® mobile Core™ i3-4100E on-board processor (2.4GHz, dual-core, 3MB cache, TDP=37W)                              |
|                          | Intel® mobile Celeron® 2000E on-board processor (2.2GHz, dual-core, 2MB cache, TDP=37W)                              |
|                          | 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)                              |
| Chipset                  | Intel® QM87  |
| Memory                   | One 204-pin 1600/1333 MHz<br>dual-channel DDR3 & DDR3L SDRAM unbuffered DIMM   |
| Memory Max.              | 8GB  |
| Physical Characteristics |  |
| Dimensions (LxWxH) (mm)  | 115 X 165  |
| Net Weight               | 350g   |
| Storage                  |  |
| Storage                  | 2 x SATA :6Gb/s with 5V SATA power connector(RAID0,1 supported)  |
| I/O Interface            |  |
| Display Output           | 1 x VGA<br>2 x HDMI :up to 2500x1600@60Hz<br>1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz)                 |
| Ethernet                 | 2 x LAN :LAN1: Intel® I217-LM PHY with Intel® AMT 9.0 support<br>LAN2: Intel® I210-AT PCIe controller                |
| Audio                    | Description: Realtek ALC662 HD Audio codec<br>1 x Front Audio :2x5 pin   |
| I/O Interface            | 2 x Internal RS-232 :2x5 pin, p=2.0<br>1 x Internal RS-422/485 :1x4 pin, p=2.0<br>2 x External USB 2.0               |

|                       |   |
|-----------------------|---|
|                       | 2 x External USB 3.2 Gen1x1   |
|                       | 2 x Internal USB 2.0 :2x4 pin, p=2.0  |
|                       | 1 x PS/2 :1x6 pin   |
| Expansion             | 1 x PCIe mini Card Slot :Full-size(support mSATA)                               |
|                       | 1 x PCIe/104 :Type 2 slot (optional)  |
| <b>Other Features</b> |   |
| iRIS                  | 1 X iRIS-1010 slot  |
| TPM                   | 2x10 pin  |
| <b>Power</b>          |   |
| Power Consumption     | 12V@4.78A (Intel® Core™ i7-4770EQ 2.4GHz CPU<br>with 4 GB 1333 MHz DDR3 memory) |
| Power Supply          | 12V only DC input   |
|                       | 1 x Internal power connector (2x2 pin)  |
|                       | Support AT/ATX mode   |
| <b>Environment</b>    |   |
| Operating Temperature | -10°C ~ 60°C  |
| Storage Temperature   | -20°C ~ 60°C  |
| Humidity              | 5% ~ 95%, non-condensing  |
| <b>Certifications</b> |   |
| Safety & EMC          | CE/FCC compliant  |

## Ordering Information

|                      |  |
|----------------------|--|
| NANO-QM871-i1-i7-R10 | EPIC SBC supports Intel® 22nm 4th Generation Mobile Core™ i7-4700EQ processor (47W), with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, PCIe/104, SATA 6Gb/s, Audio, iRIS-1010 and RoHS |
| NANO-QM871-i1-i5-R10 | EPIC SBC supports Intel® 22nm 4th Generation Mobile Core™ i5-4400E processor(37W) with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, PCIe/104, SATA 6Gb/s, Audio, iRIS-1010 and RoHS    |
| NANO-QM871-i1-i3-R10 | EPIC SBC supports Intel® 22nm 4th Generation Mobile Core™ i3-4100E processor(37W) with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, PCIe/104, SATA 6Gb/s, Audio, iRIS-1010 and RoHS    |
| NANO-QM871-i1-C-R10  | EPIC SBC supports Intel® 22nm 4th Generation Mobile Celeron™ 2000E processor (37W) with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, PCIe/104, SATA 6Gb/s, Audio, iRIS-1010 and RoHS   |

## Packing List

|   |                                    |
|---|------------------------------------|
| 1 x NANO-QM871-i1 single board computer | 1 x Audio cable                    |
| 1 x CPU cooler                          | 1 x Power cable                    |
| 2 x RS-232 cable                        | 1 x QIG (Quick Installation Guide) |
| 2 x SATA with power cable kit           |                                    |