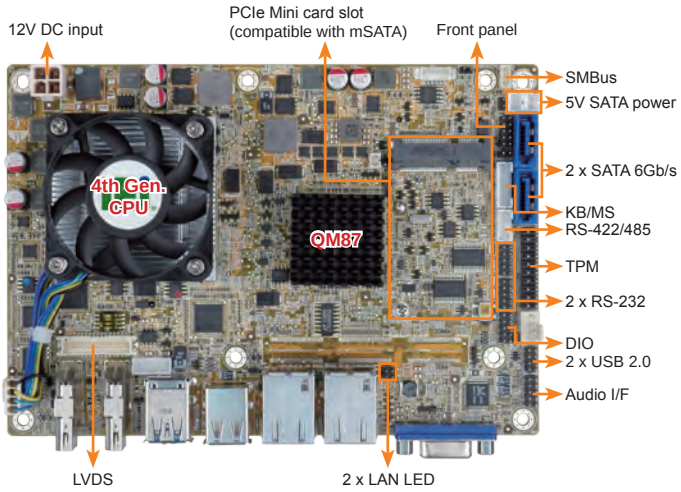
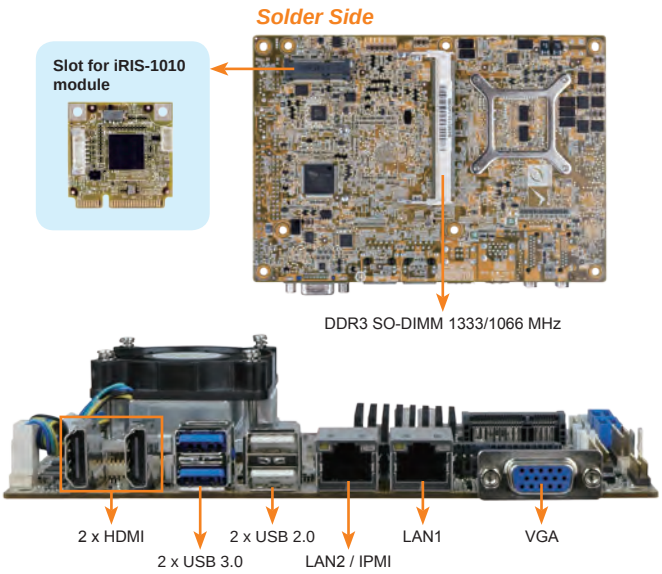
NANO-QM871-i1

EPIC SBC supports 4th Generation Intel® Mobile Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, SATA 6Gb/s, PCIe Mini, iRIS-1010, Audio and RoHS





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™ i5-4400E 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
- BIOS: UEFI BIOS
- Memory
  One 204-pin 1600/1333 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMM supports up to 8 GB
- 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
  1 x VGA (up to 1920x1200@60Hz)
  1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)
  2 x HDMI (up to 2500x1600@60Hz)
- Ethernet
  LAN1: Intel® I217-LM PHY with Intel® AMT 9.0 support
  LAN2: Intel® I210-AT PCIe controller
- External I/O Interface
  2 x USB 2.0
  2 x USB 3.0
- Internal I/O Interface
  1 x KB/MS (1x6 pin)
  2 x USB 2.0 (2x4 pin, P=2.0)
  1 x RS-422/485(1x4 pin, P=2.0)
  2 x RS-232 (2x5 pin, P=2.0)
  2 x SATA 6G/s with 5V SATA power connector (RAID 0,1 supported)
- iRIS Remote Management Module: 1 x iRIS-1010 slot
- TPM: 1 x TPM connector (2x10 pin)
- SMBus: 1 x SMBus (1x4 pin)
- Audio
  Realtek ALC662 HD Audio codec
  1 x Front audio (2x5 pin)
- Front Panel
  1 x Front Panel (2x5 pin)
- LAN LED: 2 x LAN LED (1x2 pin)
- Expansion
  1 x Full-size PCIe Mini card slot (supports mSATA)
  1 x PCIe/104 Type 2 slot (optional)
- Watchdog Timer: Software programmable, support 1~255 sec. system reset
- Digital I/O: 8-bit digital I/O (2x5 pin)
- Fan Connector
  1 x CPU smart fan (1x4 pin)
  1 x System smart fan (1x4 pin)
- Power Supply
  12V only DC input
  1 x Internal power connector (2x2 pin)
  Support AT/ATX mode
- Power Consumption
  12V@4.78A (Intel® Core™ i7-4770EQ 2.4GHz CPU with 4 GB 1333 MHz DDR3 memory)
- Operating Temperature: -10°C ~ 60°C
- Storage Temperature: -20°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 115 mm x 165 mm
- Weight: GW: 850g / NW: 350g

TPM 1.2 Support

IPMI 2.0 Compliant

One Key Recovery

DDR3 1600

1.35V DDR3L

Jumper-less

Triple Display

USB 3.0

SATA 6Gb/s

PCIe GbE

mSATA

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

Packing List

1 x NANO-QM871-i1 single board computer	
1 x Audio cable	1 x CPU cooler
1 x Power cable	1 x One Key Recovery CD
2 x RS-232 cable	1 x QIG
2 x SATA with power cable kit	1 x Utility CD

Ordering Information

Part No.	Description
NANO-QM871-i1-i7-R10	EPIC SBC supports Intel® 22nm Mobile Core™ i7-4700EQ on-board Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, AMT 9.0, PCIe Mini, USB 3.0, SATA 6Gb/s, iRIS-1010, Audio and RoHS
NANO-QM871-i1-i5-R10	EPIC SBC supports Intel® 22nm Mobile Core™ i5-4400E on-board Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, AMT 9.0, PCIe Mini, USB 3.0, SATA 6Gb/s, iRIS-1010, Audio and RoHS
NANO-QM871-i1-i3-R10	EPIC SBC supports Intel® 22nm Mobile Core™ i3-4100E on-board Processor with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, iRIS-1010, Audio and RoHS
NANO-QM871-i1-C-R10	EPIC SBC supports Intel® 22nm Celeron 2000E on-board Processor (37W) with VGA/Dual HDMI/LVDS, Dual PCIe GbE, USB 3.0, PCIe Mini, SATA 6Gb/s, iRIS-1010, Audio and RoHS
iRIS-1010-R10	IPMI 2.0 adapter card with AST1010 BMC chip (W/O KVM over IP function) for PCIe Mini socket interface
32000-023800-RS	PS/2 KB/MS cable, 135mm/110mm, P=2.0
32001-008600-200-RS	Dual-port USB 2.0 cable, 210mm. P=2.0
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
TPM-IN01-R20	20-pin Infineon TPM module, software management tool, firmware v3.17

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.