



## Features

- Onboard 4<sup>th</sup> Gen Intel® Core™ i7/i5/i3 BGA Processor
- One 204-Pin DDR3L SO-DIMM Up to 8GB DDR3 1333/ 1600 SDRAM
- Triple Independent Display
- 18/24-bit Dual-channel LVDS, 1 x DVI, 2 x HDMI
- Dual Gigabit Ethernet, HD Audio
- 2 x SATA III, 1 x Mini PCIe, 6 x USB 3.0, 2 x USB 2.0, 4 x COM, 8-bit GPIO
- Support mSATA, TPM 1.2 Function
- iAMT 9.0



## Specifications

### System

<b>Processor</b>	4 <sup>th</sup> Gen Intel® Core™ i7-4700EQ 4-Core 3.4GHz processor 4 <sup>th</sup> Gen Intel® Core™ i5-4422E, 2-Core 1.8GHz processor 4 <sup>th</sup> Gen Intel® Core™ i3-4110E, 2-Core 2.6GHz processor
<b>System Chipset</b>	Intel® QM87 Express Chipset
<b>System Memory</b>	1 x 204-Pin DDR3L 1333/1600MHz SO-DIMM, up to 8 GB
<b>I/O Chip</b>	EC ITE IT8518E
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring SYSTEM Temperature and Voltage with Auto Throttling Control

### Expansion & Storage

<b>Expansion</b>	1 x Mini PCIe Supports mSATA
<b>Storage</b>	1 x mSATA, Supported from Mini PCIe

### Touch Screen

<b>Built-in Touch controller(optional)</b>	Chipset: PenMount 6000 Touch Screen Interface: With 9-pin 2.0mm Box Header (Can be Selected to Support 4/5/8-wire Touch Screen)
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### I/O

<b>USB</b>	6 x USB 2.0, 2 x USB 3.0
<b>SATA</b>	2 x SATA III
<b>COM Port</b>	2 x RS-232/422/485, 2 x RS-232
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x LPC, 1 x SPI, 1 x PS2/ KB & MS, 1 x IrDA

### Display

<b>Chipset</b>	Intel® Valleyview SoC integrated Graphics Supports triple display
<b>Resolution</b>	DVI-I: Max. resolution 1920x1200 @ 60Hz HDMI: Max. resolution 4000x2000 @ 25Hz LVDS: Max. resolution 1920x1080 @ 60Hz Dual HDMI + LVDS/HDMI + LVDS + DVI or Dual HDMI + CRT/HDMI + LVDS + CRT Dual-channel 18/ 24-bit LVDS, One DVI Port Co-lyay with VGA

### Audio

<b>Chipset</b>	Realtek ALC892, supports 5.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out

### Ethernet

<b>Chipset</b>	1 x Intel® I210AT, 1 x Intel® I217LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45

### Mechanical & Environmental

<b>Power Requirement</b>	+12V ~ +19V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temperature</b>	0 ~ 60°C (32 ~ 140°F)
<b>Storage Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Size (L x W)</b>	4.5" x 6.5" (115mm x 165mm)
<b>Weight</b>	0.4lbs (0.18kg)

### Certification & Software Support

<b>Certification</b>	CE, FCC Class A
<b>OS Information</b>	Win 8, Win 7, Linux

## Ordering Information

- EPI-QM87-4700-A1R
- EPIC-QM87W/i7 4700EQ/6USB3.0/4COM/A1
- EPI-QM87R-4422-A1R
- EPIC-QM87RW/i5 4422E/6USB3.0/4COM/A1
- EPI-QM87R-4110-A1R
- EPIC-QM87R W/i3 4110E/6USB3.0/4COM/A1