



## EPS-QM87E

4th Gen Intel®Core™ Processor Core™ i7/i5/i3  
Fanless Rugged Embedded System with Intel®  
QM87 Chipset

- > Onboard 4th Gen Intel®Core™ i7/i5/i3 BGA Processor
- > Intel® QM87 Express Chipset
- > One 204-pin DDR3L SODIMM Up to 8GB DDR3L 1333/1600MHz SDRAM
- > Rich I/O, 1 DVI, 1 Mic-In, 1 Line-Out, 2 HDMI, 2 LAN, 4 COM, 6 USB
- > Expansion Slot Supports 1 Mini PCIe Slot
- > Triple Independent Display, Dual HDMI + CRT(via DVI to VGA Adapter)
- > Rugged Design for Vibration & Shock Protection
- > Fanless Operating from -10 ~ 60°C
- > Supports iAMT 9.0 and TPM Function
- > Service Windows, Easy to Install mSATA, 2.5" Drive Bay, Memory Mini PCIe Module

### + Spec

System	
<b>Processor</b>	4th Gen Intel® Core™ i7-4700EQ 4-Core 2.4GHz processor 4th Gen Intel® Core™ i5-4422E, 2-Core, 1.8GHz processor 4th 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 1333MHz SO-DIMM up to 8 GB or 1 x 204-Pin DDR3L 1600MHz SO-DIMM up to 8 GB
<b>Watchdog Timer</b>	HW Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature and Voltage with Auto Throttling Control
<b>Board</b>	EPI-QM87
Expansion	
<b>Expansion</b>	1 x Mini PCIe
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay 1 x mSATA
I/O	
<b>USB</b>	2 x USB 2.0 4 x USB 3.0
<b>COM Port</b>	2 x RS-232 2 x RS-232/422/485 (Factory Optional)
<b>Other</b>	2 x Knockouts for Antenna Mounting
Display	
<b>Chipset</b>	Intel® QM87 Chipset Integrated Supports triple display
<b>Resolution</b>	DVI-I:Max. resolution 1920x1200@ 60Hz HDMI:Max. resolution 3840x2160@ 24Hz
Audio	
<b>Chipset</b>	Realtek ALC892 supports 5.1-CH
<b>Audio Interface</b>	Mic-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>Operating Temp</b>	(w/SSD, mSATA), ambient w/ air flow; i7 -10°C ~ 50°C (14°F ~ 122°F) (w/SSD, mSATA), ambient w/ air flow; i5/i3 -10°C ~ 60°C (14°F ~ 140°F)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Construction</b>	Aluminum + Metal
<b>Mounting Kit</b>	Wall Mount kit (Standard)
<b>Dimension (L x W x H)</b>	9.84" x 8.66" x 2.36" (250mm x 220mm x 60mm)
<b>Vibration Test</b>	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Certifications	
<b>Certification Information</b>	CE FCC Class A
Software Support	



<b>OS Information</b>	Win 7 Win 8 Linux
<b>Power Requirement</b>	
<b>Power Connector</b>	Lockable DC Jack
<b>Power Requirement</b>	+12V ~ +19V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Input: 100 ~ 240Vdc/ 50 ~ 60Hz; Output 84W Adapter (12V @ 7A Adapter)  Input: 100 ~ 240Vdc/ 50 ~ 60Hz; Output 120W Adapter (12 V @ 10A Adapter)

**+ Ordering**

- EPS-QM87E-A1-1R  
4th Gen Intel®Core™ Processor Core™ i7-4700EQ Fanless Rugged Embedded System with Intel® QM87 Chipset
- EPS-QM87E-A1-2R  
4th Gen Intel®Core™ Processor Core™ i5-4400E Fanless Rugged Embedded System with Intel® QM87 Chipset
- EPS-QM87E-A1-3R  
4th Gen Intel®Core™ Processor Core™ i3-4102E Fanless Rugged Embedded System with Intel® QM87 Chipset