



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	
Processor	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
System Chipset	Intel® QM87 Express Chipset
System Memory	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
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Board	EPI-QM87
Expansion	
Expansion	1 x Mini PCIe
Storage	
Storage	1 x 2.5" Drive Bay 1 x mSATA
I/O	
USB	2 x USB 2.0 4 x USB 3.0
COM Port	2 x RS-232 2 x RS-232/422/485 (Factory Optional)
Other	2 x Knockouts for Antenna Mounting
Display	
Chipset	Intel® QM87 Chipset Integrated Supports triple display
Resolution	DVI-I:Max. resolution 1920x1200@ 60Hz HDMI:Max. resolution 3840x2160@ 24Hz
Audio	
Chipset	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In and Line-Out
Ethernet	
Chipset	1 x Intel® I210AT 1 x Intel® I217LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Operating Temp	(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)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Construction	Aluminum + Metal
Mounting Kit	Wall Mount kit (Standard)
Dimension (L x W x H)	9.84" x 8.66" x 2.36" (250mm x 220mm x 60mm)
Vibration Test	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Certifications	
Certification Information	CE FCC Class A
Software Support	



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