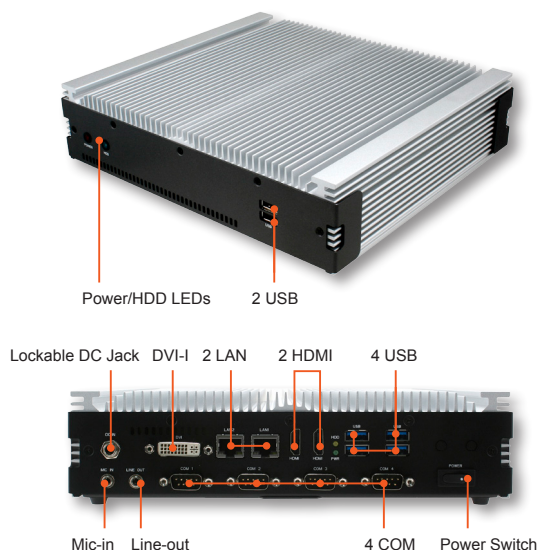




Features

- Onboard 4th Gen Intel®Core™ i7/i5/i3 BGA Processor
- Intel® QM87 Express Chipset
- One 204-Pin DDR3L SO-DIMM Up to 8GB DDR3L 1333/1600MHz SDRAM
- Rich I/O, 1 x DVI, 1 x Mic-In, 1 x Line-Out, 2 x HDMI, 2 x LAN, 4 x COM, 6 x USB
- Expansion Slot Supports 1 Mini PCIe Slot
- Triple Independent Display, Dual HDMI + CRT
- 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

CH5

Embedded Computing-Rugged Fanless System



Specifications

System

Board	EPI-QM87
Processor	4 th Gen Intel® Core™ i7-4700EQ 4-Core 2.4GHz processor 4 th Gen Intel® Core™ i5-4422E, 2-Core 1.8GHz processor 4 th Gen Intel® Core™ i3-4110E, 2-Core 2.6GHz processor
System Chipset	Intel® QM87 Express Chipset
System Memory	One 204-Pin DDR3 1066MHz SO-DIMM Up to 4GB
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control

Expansion & Storage

Expansion	1 x Mini PCIe
Storage	1 x mSATA, 1 x 2.5" Drive Bay

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 Can be set as RS-232/422/485 by BIOS
Other	2 x Knockouts for Antenna Mounting

Display

Chipset	Intel® QM87 Chipset Integrated Supports triple display
Resolution	DVI-I : 1920x1200 @ 60Hz HDMI : 3840x2160 @ 24Hz HDMI : 3840x2160 @ 24Hz

Audio

Audio Codec	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In, Line-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

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 (12V @ 7A Adapter) Input: 100 ~ 240Vdc/ 50 ~ 60Hz; Output 120W Adapter (12 V @ 10A Adapter)

Mechanical & Environmental

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)
Operating Temperature	(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 Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
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

Certification & Software Support

Certification	CE, FCC Class A
OS Information	Win 8, Win 7, Linux

Ordering Information

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™ i5-4422E Fanless Rugged Embedded System with Intel® QM87 Chipset

EPS-QM87E-A1-3R

4th Gen Intel® Core™ Processor Core™ i3-4110E Fanless Rugged Embedded System with Intel® QM87 Chipset