



ECM-QM87R

4th Gen Intel®Core™ Processor i5/i3 3.5" Micro Module with Intel® QM87 Chipset

- > Onboard 4th Gen Intel®Core™ i5/i3 BGA Processor
- > One 204-pin DDR3L SODIMM Up to 8GB DDR3 1333/ 1600 SDRAM
- > Dual-channel 18/ 24-bit LVDS, HDMI, VGA
- > Triple Display
- > 2 SATA III, 1 Mini PCIe Card (Support mSATA)
- > 6 USB 3.0, 2 USB 2.0, 2 COM, 8-bit DIO iAMT 9.0

Spec

System	
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 x204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB or 1 x204-Pin DDR3 1600MHz SO-DIMM up to 8 GB
I/O Chip	EC ITE IT8518E
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
HW Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
Expansion	1 x Mini PCIe Supports mSATA
Storage	
Storage	1 x mSATA Supported from Mini PCIe
I/O	
USB	2 x USB 2.0 6 x USB 3.0
SATA	2 x SATA III
COM Port	1 x RS-232/422/485 1 x RS-232
DIO	1 x 8bit GPIO
MIO	1 x LPC
Display	
Chipset	Intel® QM87 Chipset Integrated Supports triple display
Resolution	VGA:Max. resolution 1920x1200@ 60Hz HDMI:Max. resolution 3840x2160@ 24Hz LVDS:Max. resolution 1920x1080@ 60Hz VGA + LVDS + HDMI Dual-channel 18/ 24-bit LVDS
Audio	
Chipset	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
Mechanical & Environmental	
Power Requirement	+12V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Certifications	



Certification Information	CE FCC Class B
Software Support	
OS Information	Win 8 Win 7 Linux

+ Ordering

ECM-QM87R-4422-A1R
3.5" W/i5 4422E/QM87R/6USB3.0/2COM/A1

ECM-QM87R-4110-A1R
3.5" W/i3 4110E/QM87R/6USB3.0/2COM/A1

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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