

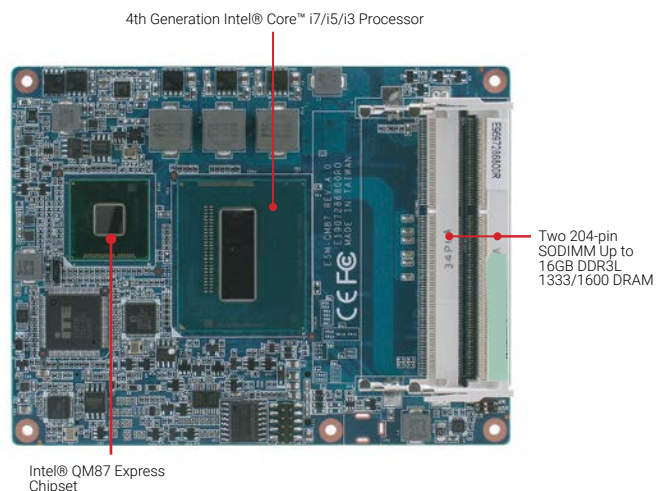
ESM-QM87

COM Express Module

4th Gen. Intel® Core™ i7/i5/i3 COM Express
Type 6 Module with Intel® QM87 Express Chipset

Features

- 4th Generation Intel® Core™ i7/i5/i3 Processor
- Intel® QM87 Express Chipset
- Dual-ch 18/24-bit LVDS, VGA, DP/HDMI/DVI
- Optional eDP
- Intel® High Definition Audio
- Intel® I217LM Gigabit Ethernet
- 7 PCIe x1, 1 PCIe x16
- 4 SATA, 8 USB 2.0, 4 USB 3.0, SMBus, LPC
- +9 ~ +19V Wide Range Power Input
- Type 6 Pin-out



Specifications

System

CPU	ESM-QM87-4700: Intel Core i7-4700EQ, 4-Core, 2.4GHz, 6M Cache ESM-QM87-4400: Intel Core i5-4400E, 2-Core, 2.7GHz, 3M Cache ESM-QM87-4102: Intel Core i3-4102E, 2-Core, 1.6GHz, 3M Cache
BIOS	AMI 64Mbit SPI BIOS
System Chipset	Intel® QM87 Express
System Memory	Two 204-pin SODIMM Up to 16GB DDR3L 1333/1600 SDRAM
Expansion	7 PCIe x1, 1 PCIe x16

OS Support

OS Info	Win 8, Win 7, Linux, Windows Server Standard
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I/O

MIO	4 SATA (6Gb x 2, 3Gb x 2), SMBus, LPC
USB	8 x USB 2.0, 4 x USB 3.0
DIO	4-bit GPI, 4-bit GPO

Display

Chipset	Intel® QM87 Express Chipset Integrated
Resolution	VGA Mode: 1920 x 2000 @ 60Hz LVDS Mode: 1920 x 1200 @ 60Hz
Multiple Display	VGA + LVDS + DVI (3 Independent Display)
LCD Interface	Dual-channel 18/24-bit LVDS, Up to 1920 x 1200, Optional eDP 2 Lanes Up to 1920 x 1200

Audio

HD Codec	Intel® QM87 Express Integrated
Audio Interface	Intel® High Definition Audio

Ethernet

LAN Chip	Intel® I217LM Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environment

Power Requirement	+9 ~ +19V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Storage Temp.	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	0%~90% Relative Humidity, Non-condensing
Dimensions	5" x 3.7" (125mm x 95mm)
Weight	0.44lbs (0.2kg)

Ordering Info

ESM-QM87-4700	Intel® Core™ i7-4700EQ, 4-Core, 2.4GHz, 6M Cache
ESM-QM87-4400	Intel® Core™ i5-4400E, 2-Core, 2.7GHz, 3M Cache
ESM-QM87-4102	Intel® Core™ i3-4102E, 2-Core, 1.6GHz, 3M Cache
EEV-EX14	COM Express Type 6 Carrier Board for Evaluation

* All product specifications and images are subject to change without notice.
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