



Features

- Intel® 4th Generation Core™ i7/i5/i3 Processors
- 1 x 204-pin DDR3L SODIMM Up to 8GB 1333/1600 SDRAM
- Dual-channel 18/24-bit LVDS, HDMI, VGA
- Realtek ALC892 Supports 5.1-CH Audio
- Dual Gigabit Ethernet
- 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



Specifications

System

CPU	Intel® Core™ i7-4700EQ, 4-Core, 2.4GHz, 6M Cache Intel® Core™ i5-4400E, 2-Core, 2.7GHz, 3M Cache Intel® Core™ i3-4102E, 2-Core, 1.6GHz, 3M Cache
BIOS	AMI uEFI BIOS, 128 Mbit SPI Flash ROM
System Chipset	Intel® QM87
I/O Chip	EC (IT8518E)
System Memory	One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3 1333/1600 SDRAM
Watchdog Timer	Reset: 1sec. ~ 65536sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control
Expansion	1 x Mini PCIe (mSATA Supported)

I/O

MIO	1 x RS-232, 1 x RS-232/422/485, LPC, 2 x SATA III
USB	6 x USB 3.0, 2 x USB 2.0
DIO	4-bit GPI, 4-bit GPO

Display

Chipset	Intel® QM87
Resolution	VGA Mode: 1920 x 1200 @ 60Hz HDMI Mode: 1920 x 1200 @ 60Hz LVDS Mode: 1920 x 1080 @ 60Hz
Multiple Display	VGA + LVDS + HDMI
LCD Interface	Dual-channel 18/24-bit LVDS

Audio

HD Codec	Realtek ALC892 Supports 5.1-CH Audio
Audio Interface	Mic-in, Line-in, Line-out

Ethernet

LAN Chip	1 x Intel® I210AT Gigabit Ethernet Controller 1 x Intel® I217LM Gigabit Ethernet PHY
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

Power Requirement	+12V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	0%~90% Relative Humidity, Non-condensing
Size (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)

Ordering Information

ECM-QM87
Intel® 4th Generation Core™ i7/i5/i3 Processor 3.5" Micro Module with Intel® QM87 Chipset
AUX-056
USB 3.0 Daughter Board