



## Features

- Intel® rPGA988B (Socket G2) Supports Intel® 3<sup>rd</sup> Generation Core™ i7/i5/i3 Processors
- Intel® QM77 Chipset
- One 204-pin DDR3 SODIMM Up to 8GB DDR3 1333/1600 SDRAM
- Dual-channel 18/24-bit LVDS, HDMI, VGA
- Realtek ALC892 HD Audio Codec
- 2 x Gigabit Ethernet
- Triple Display
- 2 SATA III, 1 Mini PCIe
- 4 USB 3.0, 2 USB 2.0, 2 COM, 8-bit DIO
- iAMT 8.0

Embedded System

Qseven Module

COM Express /ETX/XTX

3.5" SBC

EPIC

5.25" SBC

ATX

Micro ATX

Mini ITX

Nano ITX

Rack Mount System

Mini ITX System

Peripherals

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## Specifications

### System

<b>CPU</b>	Intel® Core™ i7-3610QE, 4-Core, 2.3GHz, 6M Cache Intel® Core™ i5-3610ME, 2-Core, 2.7GHz, 3M Cache Intel® Core™ i3-3120ME, 2-Core, 2.4GHz, 3M Cache
<b>BIOS</b>	AMI uEFI BIOS, 64Mbit SPI Flash ROM iAMT8.0 Supported
<b>System Chipset</b>	Intel® QM77 Chipset
<b>I/O Chip</b>	Nuvoton NCT6776F
<b>System Memory</b>	One 204-pin DDR3 SODIMM Socket Supports Up to 8GB DDR3 1333/1600 SDRAM
<b>Watchdog Timer</b>	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature, Voltage with Auto Throttling Control
<b>Expansion</b>	1 x Mini PCIe
<b>TPM</b>	TPM 1.2 Supported (Optional)
<b>I/O</b>	
<b>MIO</b>	1 x RS-232, 1 x RS-232/422/485, LPC, 2 x SATA III
<b>USB</b>	2 x USB 2.0, 4 x USB 3.0
<b>DIO</b>	4-bit GPI, 4-bit GPO

### Display

<b>Chipset</b>	Intel® QM77
<b>Resolution</b>	VGA Mode: 1920 x 1200 @ 60Hz HDMI Mode: 1920 x 1200 @ 60Hz LVDS Mode: 1920 x 1200 @ 60Hz
<b>Multiple Display</b>	VGA + LVDS + HDMI
<b>LCD Interface</b>	Dual-channel 18/24-bit LVDS

### Audio

<b>HD Codec</b>	Realtek ALC892 Supports 5.1-CH Audio
<b>Audio Interface</b>	Mic-in, Line-in, Line-out

### Ethernet

<b>LAN Chip</b>	1 x Intel® 82574L Gigabit Ethernet, 1 x Intel® 82579 Gigabit Ethernet PHY
<b>Ethernet Interface</b>	10/100/1000 Base-Tx Gigabit Ethernet Compatible

### Mechanical & Environmental

<b>Power Requirement</b>	+12V
<b>ACPI</b>	Single Power ATX Support S0, S1, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temperature</b>	0 ~ 60°C (32 ~ 140°F)
<b>Storage Temperature</b>	-40 ~ 75°C (-40 ~ 167°F)
<b>Operating Humidity</b>	0%~90% Relative Humidity, Non-condensing
<b>Size (L x W)</b>	5.7" x 4" (146mm x 101mm)
<b>Weight</b>	0.44lbs (0.2kg)

## Ordering Information

### ECM-QM77

Intel® 3<sup>rd</sup> Generation Core™ i7/i5/i3 Processors 3.5" Micro Module with Intel® QM77 Chipset

### AUX-056

USB 3.0 Daughter Board

ACC-ECM-SDOMxx-xxx

SATADOM Series (xx = Capacity, Capacity Option: 1, 2, 4, 8GB)