



Features

- Intel® LGA1155 Socket Supports 2nd/3rd Generation Core™ i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 65W)
- Intel® B75 Express Chipset
- Two 204-pin DIMMs Socket Support Up to 16GB DDR3/DDR3L (Jumper Selectable) 1333/1600 SDRAM
- DVI-D, HDMI, VGA
- Realtek ALC661 HD Audio Decoding Controller
- Dual Gigabit Ethernet
- 5 SATA II, 1 Mini PCIe
- 2 USB 3.0, 8 USB 2.0, 8 RS-232, 2 RS-422/485

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

CPU	Intel® LGA1155 Socket Supports 2 nd /3 rd Generation Core™ i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 65W)
BIOS	AMI 64Mbit SPI BIOS
System Chipset	Intel® B75 Express Chipset
I/O Chip	NuvoTon NUT6106D Support 6 COMs Fintek F81216AD for 4 COMs
System Memory	Two 204-pin DIMMs Socket Support Up to 16GB DDR3/DDR3L (Jumper Selectable) 1333/1600 SDRAM
Watchdog Timer	Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control
Buzzer	Buzzer Onboard
Expansion	1 x Mini PCI-e *Mini PCI-e and mSATA SSD Switch Through Jumper

I/O

MIO	5 SATA II, 1 mSATA, LPT, 1 PS2 KB/MS, 1 x 10 Pins Header for VGA Output Port
Serial Port	RS-422/485 : COM2, COM10 RS-232 with 5V/12V : COM1, COM3 ~ COM6 RS-232 without Voltage : COM7 ~ COM9
USB	2 x USB 3.0, 8 x USB 2.0
DIO	1 x 12-pin Header for 8-bit General Purpose I/O

Display

Chipset	Intel® B75 Integrated
Resolution	3 Display Pipes Supported - HDMI: 1920 x 1200 - DVI-D: 1920 x 1200 - VGA: 2560 x 1600
Multi-Display	DVI-D, VGA, HDMI

Audio

Chipset	Realtek ALC661 HD Audio Decoding Controller
Audio Interface	Mic-in, Line-out

Ethernet

LAN Chip	2 x Realtek RTL8111E Gigabit Ethernet
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Mechanical & Environmental

Power Requirement	+12V/+5V/+3.3V/+5VSB
Power Type	ATX Mode
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)	6.69" x 6.69" (170mm x 170mm)
Weight	0.88lbs (0.4Kg)

Ordering Information

EMX-B75-A1R

Intel® Core™ i7/i5/i3/Pentium®/Celeron® Mini ITX Motherboard with Intel® B75 Express Chipset and VGA, DVI-D, HDMI, 1 x Mic-in, 1 x Line-in, 2 GbE, 1 Mini PCI-e, 5 SATA II, 2 USB 3.0, 8 USB 2.0, LPT, 8 RS-232, 2 RS-422/485, 8-bit GPIO, 1 PS2 KB/MS, w/SATA Cable, Bracket/CD Driver