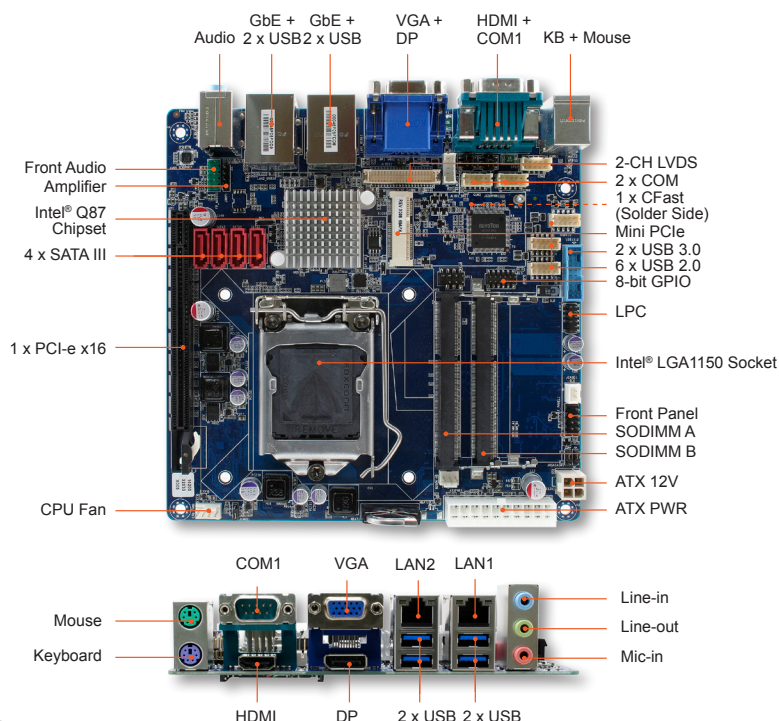




Features

- Intel® LGA1150 Socket Supports 4th Generation Core™ Refresh i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 95W)
- Intel® Q87 Express Chipset
- Two 204-Pin DIMM Sockets Up to 16GB Dual Channel, DDR3 1333/1600MHz
- VGA, HDMI, DP, Dual-channel 18/24-bit LVDS
- 1 x Intel® I211AT PCI-e Gigabit Ethernet
- 1 x Intel® I217LM PCI-e Gigabit Ethernet PHY
- Realtek ALC892 Supports 5.1-CH HD Audio Codec
- TI TPA2012D2RTJT Stereo Class-D 2W x 2 Audio Amplifier
- 1 x Mini PCI-e Supported mSATA, 1 x PCI-e x 16, 1 x CFast
- 4 x SATA III, 6 x USB 3.0, 6 x USB 2.0
- 3 x RS-232, 1 x RS-232/422/485, 8-bit GPIO
- Supports RAID 0, 1, 5, 10, iAMT 9.0
- TPM 1.2 (optional); ATX Power



Specifications

System

Processor	Intel® LGA1150 Socket Supports 4 th Generation Core™ Refresh i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 95W)
BIOS	AMI uEFI BIOS, 64Mbit SPI Flash ROM iAMT 9.0 Supported
System Chipset	Intel® Q87 Express Chipset
I/O Chip	Nuvoton NCT6106D
System Memory	2 x 204-Pin DDR3 1333/1600MHz SO-DIMM Up to 16GB
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min.step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control

Expansion & Storage

Expansion	1 x Mini PCI-e Socket (Mini PCI-e and mSATA SSD Switch Through Jumper) 1 x PCI-e x16 1 x CFast
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I/O

MIO	1 x PS2 Keyboard, 1 x PS2 Mouse
USB	6 x USB 3.0, 6 x USB 2.0
DIO	1 x 8bit GPIO
SATA	4 x SATA III
COM Port	1 x RS-232/422/485, 3 x RS-232
Other	TPM 1.2 SLB9635 (optional)

Display

Chipset	Intel® 4 th Generation CPU integrated Supports triple display
Resolution	DP: 3840 x 2160 @ 60Hz LVDS: 1920 x 1200 @ 60Hz VGA: 1920 x 1200 @ 60Hz HDMI : 4096x2160 @ 24 Hz / 1920x1080 @ 60 Hz Dual-channel 18/ 24-bit LVDS

Audio

Audio Codec	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In, Line-Out, Line-In
Audio Amplifier	TI TPA2012D2RTJT Stereo Class-D 2W x 2 Audio Amplifier

Ethernet

Chipset	1 x Intel® I211AT 1 x Intel® I217LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45

Mechanical & Environmental

Power Requirement	+12V/ +5V/5Vsb/ +3.3V
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)	6.69" x 6.69" (170mm x 170mm)
Weight	1.03lbs (0.47Kg)

Ordering Information

EMX-Q87R-A1R

Intel® 4th Generation Core™ Refresh i7/i5/i3 Mini ITX Motherboard with Intel® Q87 Express Chipset