



## EMX-QM77

Intel® 3rd Generation Core™ i7/ i5/ i3 Mini ITX Motherboard with Intel® QM77 Express Chipset

- > Intel® rPGA988 Socket Supports Intel® 3<sup>rd</sup> Generation Core™ i7/i5/i3 Processors
- > Intel® QM77 Express Chipset
- > Two 204-pin SO-DIMM Sockets support up to 16GB Dual Channel, DDR3 1333/1600 MHz
- > VGA, HDMI, DVI, Dual-channel 18/24-bit LVDS
- > 1 x Intel® 82583V PCI-e Gigabit Ethernet
- > 1 x Intel® 82579LM PCI-e Gigabit Ethernet PHY
- > Realtek ALC892 Supports 5.1-CH HD Audio Codec
- > 1 x Mini PCI-e, 1 x PCI-e x 16, 1 x CFast
- > 2 x SATA III, 3 x SATA II
- > 4 x USB 3.0, 8 x USB 2.0
- > 3 x RS-232, 1 x 8-bit GPIO
- > iAMT 8.0
- > TPM 1.2

### Spec

System	
<b>Processor</b>	Intel® rPGA988 Socket Supports Intel® 3rd Generation Core™ i7/i5/i3 Processors
<b>System Chipset</b>	Intel® QM77 Express Chipset
<b>System Memory</b>	2 x 204-Pin DDR3 1333/1600 MHz SO-DIMM supports up to 16 GB
<b>I/O Chip</b>	NCT6776F
<b>BIOS</b>	AMI uEFI BIOS, 64Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
<b>Expansion</b>	1 x PCI-e x 16 1 x Mini PCI-e 1 x CFast
I/O	
<b>USB</b>	4 x USB 3.0 8 x USB 2.0
<b>SATA</b>	2 x SATA III 3 x SATA II
<b>COM Port</b>	3 x RS-232
<b>DIO</b>	1 x 8-bit GPIO
<b>MIO</b>	1 x PS/2 Keyboard 1 x PS/2 Mouse
<b>Other</b>	TPM 1.2 SLB9635 1 x S/PDIF-out Header
Display	
<b>Chipset</b>	Intel® 2nd/ 3rd Generation CPU integrated VGA + LVDS, VGA + HDMI, VGA + DVI, HDMI + LVDS, HDMI + DVI, LVDS + DVI
<b>Resolution</b>	VGA: 2048 x 1536 @ 60Hz HDMI: 1920 x 1200 @ 60Hz LVDS: 1920 x 1200 @ 60Hz DVI: 1920 x 1200 @ 60Hz
Audio	
<b>Chipset</b>	Realtek ALC892 supports 5.1-CH
<b>Audio Interface</b>	Mic-in, Line-in and Line-out
Ethernet	
<b>Chipset</b>	1 x Intel® 82583V 1 x Intel® 82579LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V/+5V/5Vsb/+3.3V/-12V
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	6.69" x 6.69" (170mm x 170mm)
<b>Weight</b>	1.03lbs (0.47kg)

### Ordering

EMX-QM77-A1R  
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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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