



Features

- Intel® rPGA988 Socket (Socket G2) Supports Intel® Mobile Core™ i7/ i5/ i3/ Celeron® CPU
- Intel® QM67 Chipset
- Two 204-pin Dual-channel DDR3 1333/ 1066 Non-ECC SODIMM, Up to 16GB
- Intel® GMA HD 2000/ 3000 Supports DirectX 10.1
- HDMI, DisplayPort, VGA, 24-bit 2-CH LVDS
- Realtek ALC892 Supports 5.1-CH HD Audio
- Dual Gigabit Ethernet
- 1 PClex16 Gen. 2, 1 Mini PCIe, 1 CFast
- 2 SATA 3.0 (6Gb/s) and 3 SATA II Supports RAID 0, 1, 5, 10
- 4 COM, 12 USB 2.0, 8-bit GPIO

Intel® QM67	5.1-CH Audio	2 GbE	PClex16	Mini PCIe
CFast	4 COM	12 USB	8 GPIO	

Specifications

System

• CPU	Intel® rPGA988 Socket (Socket G2) Supports Intel® Mobile Core™ i7/ i5/ i3/ Celeron® CPU
• BIOS	AMI 16Mb SPI
• System Chipset	Intel® QM67
• I/O Chip	Nuvoton NCT6776F
• System Memory	Two 204-pin SODIMM Support Up to 16GB Dual-channel DDR3 1333/ 1066, Up to 16GB
• Watchdog Timer	Reset: 1 to 255 sec/min per step
• H/W Status Monitor	Monitoring CPU Temperature and Fan Status with Auto Throttling Control
• Expansion	1 PClex16 Gen. 2, 1 Mini PCIe, 1 CFast Card Connector
• Power State	Yes (S1, S3, S4, S5)
• TPM	Onboard TPM 1.2 by Infineon SLB9635
• SmartFan Control	Yes

I/O

• MIO	3 COM RS-232 with Power (5V/ 12V, Internal), 1 COM RS-232 (Rear), 2 SATA 3.0, 2 SATA II, 1 HDMI, 1 DisplayPort, 1 VGA, 1 LVDS, 1 LVDS Backlight, 2 LAN, 1 CFast Card, 1 PS/2 Keyboard, 1 PS/2 Mouse
• USB	12 USB 2.0 (4 Rear, 8 Internal)
• DIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Audio

• Audio Codec	Realtek ALC892, 5.1-CH HD Audio
• Audio Interface	Line-in, Line-out, Mic-in, Front Audio Header

Display

• Chipset	Intel® GMA HD 2000/ 3000
• Display Memory	Shared Memory, Up to 1.7GB
• Dual Display	VGA + LVDS, VGA + DisplayPort, VGA + HDMI, DisplayPort + HDMI, LVDS + HDMI, LVDS + DisplayPort
• VGA	Onboard, Supports Max Resolution 2048 x 1536 (@60Hz)
• HDMI	Onboard HDMI 1.3 Supports Max Resolution 1920 x 1080
• DisplayPort	Onboard, Supports Max Resolution 2560 x 1600
• LVDS	Onboard Dual-channel 24-bit LVDS Supports Max Resolution 1920 x 1080
• LVDS Backlight	Yes, Through Internal LVDS Backlight Connector

Ethernet

• LAN 1	Intel® 82579LM Gigabit Ethernet
• LAN 2	Intel® 82583V Gigabit Ethernet

Mechanical & Environmental

• Power Type	ATX (Supports AT Mode)
• Power Connector	1 20-pin ATX Power Connector, 1 4-pin ATX 12V Power Connector
• Operating Temperature	0 ~ 60°C (32 ~ 140°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-QM67-A1R
Intel® Core™ i7/ i5/ i3 Mini ITX Motherboard with Intel® QM67 Chipset