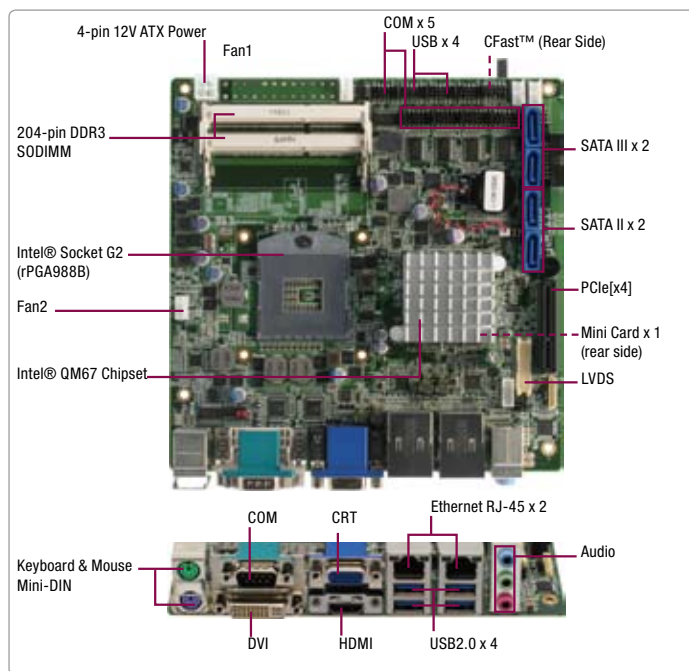


# EMB-QM67

Embedded Motherboard with Socket G2 (rPGA988B) 2nd Generation for Intel® Core™ i7/ i5/ Celeron® QC/ DC Processor

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Embedded & Industrial Motherboards



## Features

- Socket G2 (rPGA988B) 2<sup>nd</sup> Generation for Intel® Core™ i7/ i5/ Celeron® QC/ DC Processor
- Intel® QM67
- 204-pin Dual-Channel DDR3 1066/1333/1600 MHz SODIMM x 2, Up to 8 GB
- Gigabit Ethernet x 2
- Intel® Integrated Graphics Engine Supports Dual View by VGA, DVI, HDMI, 24-bit Dual-Channel LVDS
- HD Audio
- SATA 3.0Gb/s x 2, Support RAID 0,1,5,10
- USB2.0 x 8, COM x 6
- PCI-Express [x4] x 1, Mini PCIe x 1, CFast™ x 1, TPM x 1 (Optional)



## Specifications

System	
Form Factor	Mini-ITX motherboard
Processor	Socket G2 (rPGA988B) 2nd Generation for Intel® Core™ i7/i5/Celeron® QC/ DC processor
System Memory	204-pin Dual-Channel DDR3 1066/1333/1600 MHz SODIMM x 2, up to 8GB
Chipset	Intel® Core™ i7/i5 QM67
Ethernet	10/100/1000Base-TX, RJ-45 x 2
Audio	HD Audio Realtek ALC 892 Codec with phone Jack
BIOS	AMI BIOS 64Mbit SPI ROM
Watchdog Timer	Reset: 1 sec. ~ 255 min. and 1 sec. or 1 min./step
H/W Status Monitoring	Monitoring system temperature, voltage, and cooling fan status
Expansion Interface	PCI-E [x4] x 1, Mini PCIe socket x 1, CFast™ x 1, TPM Module x 1 (Optional)
Power Requirement	DC 12V ATX
Power Consumption	66W @ Intel® Core™ i7-2710QE, DDR3 1333/4GB, DC
Board Size	6.7" x 6.7" (170mm x 170mm)
Gross Weight	1.32 lb (0.6Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	5% ~ 95% relative humidity, non-condensing
MTBF (Hours)	70,000
Display	
Chipset	Intel® Core™ i7/i5 + QM67
Memory	Shared system memory up to 256MB
Graphic Engine	2nd Generation Intel® Core™ i7 / i5 / Celeron® integrated Gen 5.75 graphics
Resolution	Up to 2048 x 1536 @ 60 Hz for CRT Up to 1366 x 768 @ 60 Hz for LCD
Output Interface	DB-15 x 1, DVI-D x 1, HDMI x 1, LVDS x 1
I/O	
Storage	ITE IT8728F+ Fintek F81216DG
Storage	SATA 6.0Gb/s x 2, SATA 3.0Gb/s x 2, CFast™ x 1
Serial Port	RS-232 x 5 (box headers) RS-232/422/485 x 1, supports 5/12V on the 9th (on I/O)
KB & Mouse	Keyboard x 1, Mouse x 1
USB	USB2.0 x 8
Digital I/O	8-bit Programmable
Audio	Audio Jack x 3 ( Mic-in, Line-in, Line-out)

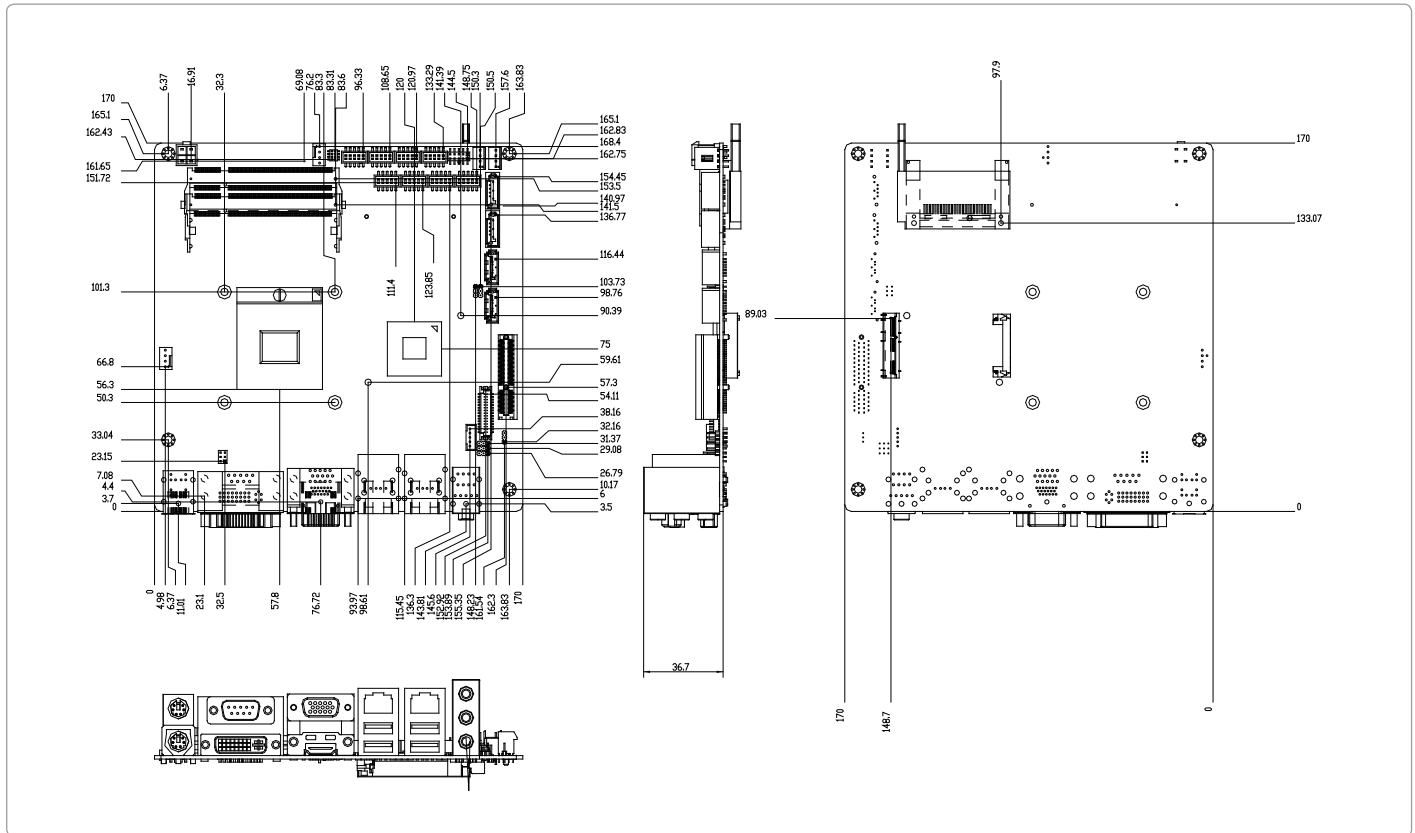
## Packing List

- 1709070800  
SATA Cable
- 1702151201  
SATA Power Cable
- M20QM6700  
Metal I/O Bracket
- 9657666600  
Jumper Cap
- 1701100206  
COM Cable
- Product DVD
- EMB-QM67

# EMB-QM67

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	Storage	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.
TF-EMB-QM67-A11	Socket	SODIMM	Fan	VGA/DVI-D/ LVDS/HDMI	SATA2 x 2, SATA3 x 2, CFast™ x 1	24-bit Dual channel	GbE x 2	8	5	1	Mini PCIe x 1 PCI-E[x4] x 1	+12V/DC	0°C - 60°C
TF-EMB-QM67-A11-01	Socket	SODIMM	Fan	VGA/DVI-D/ LVDS/HDMI	SATA2 x 2, SATA3 x 2, CFast™ x 1	24-bit Dual channel	GbE x 2	8	5	1	Mini PCIe x 1 PCI-E[x4] x 1	ATX	0°C - 60°C

## Optional Accessories

- **17592QM671**  
CPU Cooler, Fan + Heatsink, 3P, 60 x 60 x 27 mm for EMB-QM67
- **1709100208**  
USB Cable
- **17592QM672**  
CPU Cooler, Fan + Heatsink, 4P, 60mm x 60mm x 27mm