



## Features

- 4th Generation Intel® i7/i5/i3/ Pentium® / Celeron® processors, up to 3.4GHz
- 4x DDR3 DIMM, Max. 32GB
- Intel® Processor integrated graphics device, supports DVI-I, DVI-D and DisplayPort
- Dual Intel® Gigabit LAN
- 10x USB 2.0, 4x USB 3.0, 6x COM, 6x SATA III
- 4x PCI, 1x PCI-E(x16), 1x PCI-E(x4), 1x PCI-E(x1)
- Watchdog timer, Digital I/O, iAMT (9.0), vPro, iSMART

## System

CPU	LGA1150 for 4th Generation Intel® Core™ i7/i5/i3/ Pentium® / Celeron® processors, up to 3.4GHz
System Memory	4x DDR3 DIMM, Max. 32GB (Non-ECC)
System Chipset	Intel® Q87 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	4x PCI, 1x PCI-E(x16), 1x PCI-E(x4), 1x PCI-E(x1)

## Mechanical and Environmental

Dimensions	305mm x 244mm (12" x 9.6")
Max. Power Requirement	Intel® Core™ i7-4770 3.10 GHz w/ 2x 4GB DDR3-1333 +12V: 4.98A; +5V: 1.07A; +5VSB: 0.08A; +3.3V: 0.72A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

## Ordering Information

MB980VF	LGA1150 Q87 ATX Motherboard w/ DVI-I, DVI-D, DisplayPort, dual Gigabit LAN, RAID, EuP/ErP compliant, iAMT (9.0), vPro, iSMART
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## Graphics

VGA Controller	4th Generation Intel® Core™ i7/i5/i3/ Pentium® processor integrated
VGA Memory	Max. shared memory – 1024MB
Display Interface	Supports DVI-I, DVI-D and DisplayPort

## Dimensions and Drawing

## LAN

Controller	Intel® I217LM Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN
Connector	RJ-45 on board

## Multi I/O

I/O Chipset	Fintek F81866AD-I 1x RS232/422/485 (jumperless selection) 5x RS232, 6x SATAIII
USB	2 ports on board, 8 ports via pin-header (USB 2.0) 4 ports on board (USB 3.0)
Audio	Intel® Q87 PCH built-in HD audio + Realtek ALC892 codec
Others	Digital I/O (4-in/4-out), EuP/ErP, RAID, TPM (1.2), iAMT (9.0), iSMART

