



### Features

- 4th Generation Intel® Core™ i7/i5/i3 Pentium® / Celeron® Processor, up to 4.0GHz
- 2x DDR3-1600 SO-DIMM, Max 16GB
- Supports DVI-D, VGA, LVDS and DisplayPort
- 2x Intel® PCI-E Gigabit LAN
- 6x USB 3.0, 6x USB 2.0, 6x COM, 4x SATA III
- 2x Mini PCI-E slots, 1x mSATA, 1x PCI-E(x16)
- Watchdog timer, Digital I/O, iAMT(9.1), TPM(1.2), iSMART3.0

### System

CPU Type	4th Generation Intel® Core™ DT i7/i5/i3 /Pentium®/ Celeron® processors
System Memory	2x DDR3-1600 SO-DIMM, Max 16GB (Non-ECC)
System Chipset	Intel® Q87 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x mSATA
H/W Monitor	Yes
Expansion Slot	1x PCI-E(x16) slot 2x Mini PCI-E (1x full-size, 1x half-size)

### Mechanical and Environmental

Dimensions	170mm x 170mm (6.7" x 6.7")
Max. Power Requirement	Intel® Core™ i5-4570S 2.9GHz 2x DDR3-1333 2GB +12V: 6.29A ; +5V: 2.51A; +5VSB: 0.55A; +3.3V: 0.76A
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

MI981AF	LGA1150 Q87 Mini-ITX motherboard w/ VGA, DVI-D, LVDS, DisplayPort, dual Gigabit LAN, TPM 1.2, iAMT9.1, iSMART3.0
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### Graphics

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

### LAN

Controller	Intel® I217LM Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN( as 2nd LAN)
Connector	2x RJ45 on board

### Multi I/O

I/O Chipset	Fintek F81866AD-I 1x RS232/422/485 (Jumperless selection) 5x RS232, 4x SATA III
USB	6 ports USB 3.0 on board 6 ports USB 2.0 via pin header
Audio	Intel® Q87 PCH built-in HD audio controller + Realtek ALC892 w/ 7.1 channel
Others	Digital I/O [4-in/4-out], TPM 1.2, iAMT9.1, iSMART3.0

### Dimensions and Drawing

