

### Features

- 4th Generation Intel® Core™ i7/i5/i3/ Pentium® / Celeron® QC/DC processor, up to 4.4 GHz
- 2x DDR3-1600 DIMM, Max 16GB
- Intel® processor integrated graphics device, supports VGA, DVI-D
- 24-bit dual channel LVDS
- iSMART 3.0 - auto-scheduler, power resume, low temperature guardian, LVDS brightness control
- 2x Intel® PCI-E Gigabit LAN
- 4x USB3.0, 4x USB2.0, 4x COM, 4x SATA III
- 1x Mini PCI-E slot (supports mSATA)
- Watchdog timer, Digital I/O, TPM(1.2), RAID iAMT(9.0) [IB980AF only]

### System

CPU Socket	LGA1150 for 4th Generation Intel® Core™ DT i7/i5/i3/ Pentium® / Celeron® QC/DC processors
System Memory	2x DDR3-1600 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 Mini PCI-E

### 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 24-bit dual channel LVDS interface (IB980AF only)

### LAN

LAN Controller	Intel® I217LM (IB980AF) / 217V (IB980F) Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN( as 2nd LAN)
Connector	2x RJ-45 on board

### Multi I/O

I/O Chipset	Fintek F81846AD-I 1x RS232/422/485 (jumperless selection) 3x RS232, 4x SATA III, 1x LPT
USB	2 ports USB3.0 on board 2 ports USB3.0, 4 ports USB2.0 via pin header 1 port USB2.0 via Mini PCI-E
Audio	Intel® Q87 PCH built-in HD audio controller + Realtek ALC662 w/ 5.1 channel
Others	Digital I/O (4-in/4-out), iSMART, TPM 1.2, RAID, iAMT 9.0 (IB980AF only)

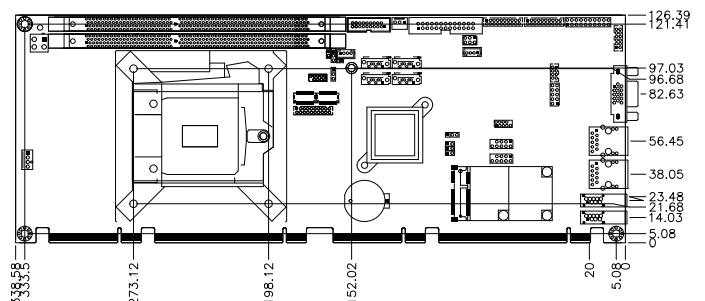
### Mechanical and Environmental

Dimensions	338mm x 126mm (13.31" x 4.96")
Max. Power Requirement	Intel® Core™ i7-4770S CPU @ 3.10GHz 2x DDR3-1333 2GB +12V: 5.54A; +5V: 2.11A; +5VSB: 0.1A; +3.3V: 0.34A
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

IB980AF	LGA1150 Q87 Full-Size CPU Card w/ VGA, DVI-D, 24-bit LVDS, dual Gigabit LAN, TPM(1.2), iAMT 9.0, iSMART 3.0
IB980F	LGA1150 Q87 Full-Size CPU Card w/ VGA, DVI-D, dual Gigabit LAN, TPM(1.2), iSMART 3.0
IP380L	PICMG 1.3 Backplane w/ 1x PCI-E (x16), 3x PCI-E (x1)

### Dimensions and Drawing



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