



Features

- 4th Generation Intel® Core™ i7/i5/i3/ Pentium® QC/DC Processor, up to 3.8 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
- 2x Intel® PCI-E Gigabit LAN
- 4x USB3.0, 5x USB2.0, 4x COM, 4x SATA III
- 1x Mini PCI-E slot (support mSATA)
- Watchdog timer, Digital I/O, TPM(1.2), iAMT(9.0) [IB980AF only]

System

CPU Socket	4th Generation Intel® Core™ DT i7/i5/i3/Pentium QC/DC processors
System Memory	2x DDR3-1600 DIMM, Max 16GB (Non-ECC)
System Chipset	Intel® Q87 PCH
BIOS	AMI BIOS
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 RS-232/422/485 (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 channels
Others	Digital I/O (4-in/4-out), iSMART 3.0, TPM 1.2, RAID, iAMT 9.0 (IB980AF only)

Mechanical and Environmental

Dimensions	338mm x 126mm (13.31" x 4.96")
Max. Power Requirement	TBD
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB980AF Art. No. 141149	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 Art. No. 141150	LGA1150 Q87 Full-Size CPU Card w/ VGA, DVI-D, dual Gigabit LAN, TPM(1.2), iSMART 3.0

Dimensions Drawing

