



Features

- 4th Generation Intel® Core™ i7/i5/i3/ Pentium® / Celeron® processor, up to 4.4 GHz
- 2x DDR3 / DDR3L-1600 DIMM, Max. 16GB, ECC
- Intel® processor integrated graphics device, supports VGA, DVI-D
- 24-bit dual channel LVDS
- 2x Intel® PCI-E Gigabit LAN
- 4x USB 3.0, 4x USB 2.0, 4x COM, 4x SATA III
- 1x Mini PCI-E slot (supports mSATA)
- Watchdog timer, Digital I/O, iSMART, TPM 2.0 , iAMT 9.0

System

CPU Type	LGA1150 for 4th Generation Intel® Core™ i7/i5/i3/ Pentium® / Celeron® processor
System Memory	2x DDR3/ DDR3L-1600 DIMM, Max 16GB (ECC compatible)
System Chipset	Intel® Q87, C226 and H81 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	1x Mini PCI-E

Graphics

VGA Controller	4th Generation Intel® Core™ i7/i5/i3 processors integrated graphics
VGA Memory	Max. shared memory – 1024MB
Display Interface	Supports VGA, DVI-D 24-bit dual channel LVDS interface (IB981AF only)

LAN

Controller	Intel® I217LM (IB981AF) / I217V (IB981F) 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
USB	2 port USB 2.0 & 2 port USB 3.0 on board 2 port USB 2.0 & 2 port USB 3.0 via pin header 1 port USB 2.0 via Mini PCI-E
Serial ATA	IB981AF: 4x SATA III IB981F: 2x SATA III
Audio	Intel® Q87 PCH built-in HD audio controller + Realtek ALC662 w/ 5.1 channel
Others	Digital I/O (4-in/4-out), iSMART, RAID, TPM 2.0 [IB981AF only], iAMT 9.0 [IB981AF only]

Mechanical and Environmental

Dimensions	338mm x 122mm (13.31" x 4.8")
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	90% (non-condensing@60°C)

Ordering Information

IB981AF-C226	GLA1150 C226 Full size CPU Card w/ VGA, DVI-D, 24-bit LVDS, dual Gigabit LAN, iSMART, TPM2.0, RAID
IB981AF	GLA1150 Q87 Full size CPU Card w/ VGA, DVI-D, 24-bit LVDS, dual Gigabit LAN, iSMART, TPM2.0, RAID
IB981F	GLA1150 H81 Full size CPU Card w/ VGA, DVI-D, 24-bit LVDS, dual Gigabit LAN, iSMART

Dimensions and Drawing

