



Features

- 4th Gen 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 USB 3.0, 4x USB 2.0, 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]

Specifications

CPU Socket	LGA1150
CPU	4th Gen Intel® Core™ DT i7/i5/i3 / Pentium® / Celeron® QC/DC processors
PCH	Intel® Q87 PCH
Memory Types	2x DDR3-1600 DIMM, Max 16GB (Non-ECC)
BIOS	AMI
Watchdog Timer	256 levels
Storage Device Interface	1x mSATA
H/W Monitor	Yes
Expansion Slots	4x PCI, 4x PCI-E (x1) or 1x PCI-E (x4) 1x PCI-E (x16) from backplane
Mini Type Slots	1x Mini PCI-E
Graphics Controller	4th Gen Intel® Core™ DT i7/i5/i3 processors integrated graphics
Video Output	Supports VGA, DVI-D 24-bit dual-channel LVDS interface (IB980AF only)
Ethernet	IB980AF: Intel® I217LM Gigabit LAN PHY IB980F: Intel® 217V Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN (as 2nd LAN)
I/O Chip	Fintek F81846AD-I
Serial Port	1x RS232/422/485 (jumperless selection) 3x RS232, 1x LPT
USB 2.0	4x USB 2.0 via pin header Optional 4ports via IP314 backplane
USB 3.0	4x USB 3.0 (2x rear I/O + 2x via pin header)
Serial ATA	4x SATA III
Audio	Intel® Q87 PCH built-in HD audio controller + Realtek ALC662 w/ 5.1 channel
TPM	TPM (1.2)
Others	Digital I/O (4-in/4-out), iSMART, TPM (1.2), RAID, iAMT (9.0) (IB980AF only)
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

