



System

CPU Socket	rPGA988B for 3rd Generation Intel® mobile Core™ i7/i5/i3 / Celeron® QC/ DC processors
System Memory	2x DDR3 SO-DIMM, Max. 16GB (Non-ECC)
System Chipset	Intel® QM77 PCH (MI970VF) / HM76 PCH (MI970F)
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x mSATA via Mini PCI-E (full-size)
H/W Monitor	Yes
Expansion Slots	1x PCI-E(x16) 2x Mini PCI-E(x1) - w/ USB signal (1x half-size, 1x full-size)

Graphics

VGA Controller	Intel® Core™ i7/i5/i3 / Celeron® integrated graphics, supports CRT, DVI, DisplayPort, LVDS
VGA Memory	Max. Shared memory – 1024MB
Display Interface	Supports 24-bit dual channel LVDS, DVI-I, DVI-D, DisplayPort

LAN

Controller	Intel® 82579LM(MI970VF) / 82579V(MI970F) Gigabit LAN PHY, Intel® 82583V PCI-E Gigabit LAN
Connector	2x RJ-45 on board

Multi I/O

I/O Chipset	Fintek F81846AD-I 3x RS232, 1x RS232/422/485, 4x SATA II, 2x SATA III
USB	4 ports on board, 2 ports via pin-header (USB 2.0) 2 ports on board, 2 ports via pin-header (USB 3.0)
Audio	Intel® QM77/HM76 PCH built-in HD audio controller+ ALC892 w/ 7.1 channels
Others	Digital I/O (4-in/4-out), ATX power connector, iSMART

Features

- Supports 3rd Generation Intel® Core™ i7/i5/i3 / Celeron® QC/DC processors
- 2x DDR3 SO-DIMM, Max. 16GB
- iSMART - for EuP/ErP power saving, auto-scheduler and power resume
- Integrated graphics, supports DVI-I/ DVI-D/ LVDS/ DisplayPort
- 2x Intel® PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, TPM 1.2
- 6x USB 2.0, 4x USB 3.0, 4x COM, 4x SATA II, 2x SATA III
- 1x PCI-E(x16), 2x Mini PCI-E(x1)

Mechanical and Environmental

Dimensions	170mm x 170mm (6.7" x 6.7")
Max. Power Requirement	3rd Generation Intel® Core™ i3-3120ME 2.40GHz w/ 2x 2GB DDR3-1333 +12V: 2.10A; +5V: 1.27A; +5VSB: 0.06A; +3.3V: 0.79A
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

MI970VF	Intel® QM77 Mini-ITX motherboard w/ DVI-I, DVI-D, DisplayPort, dual Gigabit LAN, iAMT(8.0), TPM 1.2, vPro, iSMART
MI970F	Intel® HM76 Mini-ITX motherboard w/ DVI-I, DVI-D, DisplayPort, dual Gigabit LAN, EuP/ErP, iSMART

Dimensions and Drawing

