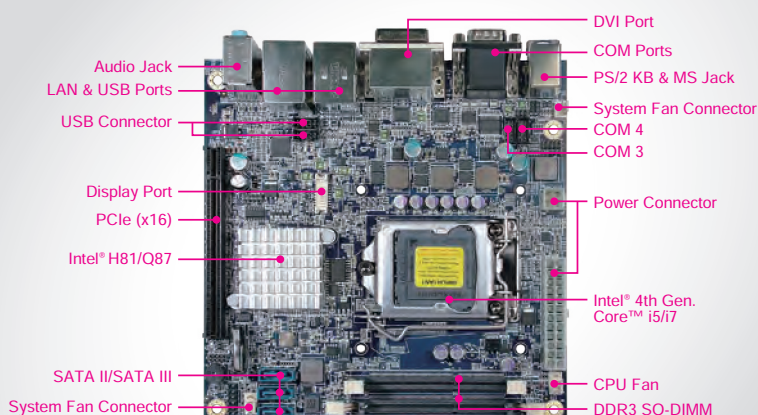


BM-0942

› Mini-ITX Intel® 4th Gen. Core™ i7 / i5 / i3 / Pentium® desktop CPU / dual LAN



Features



- Intel® 4th Gen. Core™ i7/ i5/ i3 CPU
- Intel® Q87/H81 chipset
- 4 x COM, 8 x USB, 2 x PS/2, 2 x LAN
- 2 x DVI, 1 x DP (internal)
- 3 x SATA, supporting RAID 0/1/5
- 1 x PCIe (x16)

Specifications

System

CPU Support	LGA1150 socket for Intel® 4th Gen. Core™ i7/ i5/ i3 / Pentium desktop CPU
CPU List	Intel® Core™ : i7-4770S: 65w, 4C, 3.1/3.9GHz i5-4570S: 65w, 4C, 2.9/3.6GHz i3-4340TE: 35w, 2C, 2.60GHz Intel® Pentium® : G3420: 53w, 2C, 3.2GHz
Chipset	Intel® H81chipset
DRAM	2 x SO-DIMM sockets, supporting 1333/1600 DDR3 memory up to 16GB (non-ECC)
BIOS	AMI BIOS
Watchdog	1~255 seconds watchdog timer selectable
Power Supply	ATX power
Power Consumption	+5V:1.05A; +12V:1.92A; +3.3V:0.4A; +5VSB:0.16A (CPU: i7-4770S)
Dimensions	170 x 170mm (6.69" x 6.69")
Certifications	CE / FCC
OS Support	Windows 7, Windows 8

Graphics

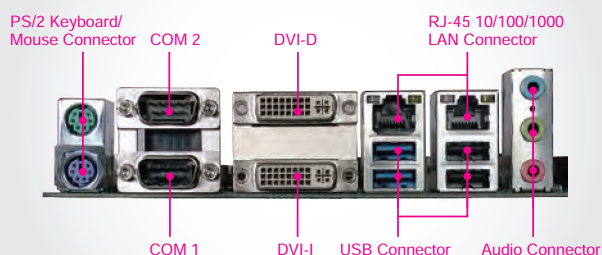
DVI	1 x DVI-D (rear IO) up to 3840x2160 @60Hz 1 x DVI-I (rear IO) up to 3840x2160 @60Hz
DP	1 x DP (internal) up to 3840x2160 @60Hz (Q87 supports triple displays, H81 supports dual displays)

* The discrete graphics card is necessary for display if the integrated graphics support is not available in the CPU.

Environment

Operating Temp.	0~60°C (32~140°F)@ humidity 5~90%
Storage Temp.	-40~85°C (-40~185°F)@ humidity 5~90%

I/O Panel View



I/O Ports

SATA Interface	2 x SATA3.0, 1 x SATA2.0 (Q87 SKU supports RAID 0/1/5)
Expansion Bus	1 x PCIe (x16)
Serial Ports	4 x ports COM1: RS-232 (rear IO) COM2: RS-232/422/485 (rear IO), selected by jumper COM3~6: RS-232 (internal wafer) COM1/2 supports 5V/12V selected by jumper
LAN	Dual LAN (2 x RJ45 on rear IO) LAN 1: Intel® i217 (GbE) LAN 2: Intel® i210 (GbE) Supports wake-on-LAN
Audio	MIC / Line-in / Line-out (rear IO)
Keyboard/Mouse	2 x PS/2 (rear IO)
USB	8 ports: 2 x USB 2.0 (rear IO) 2 x USB 3.0 (rear IO) 4 x USB 2.0 (internal wafer)
FAN	1 x CPU fan (4pin), 1 x system fan (4pin), 1 x system fan (3pin)

* All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information. For detail mechanics drawing, please contact our sales.