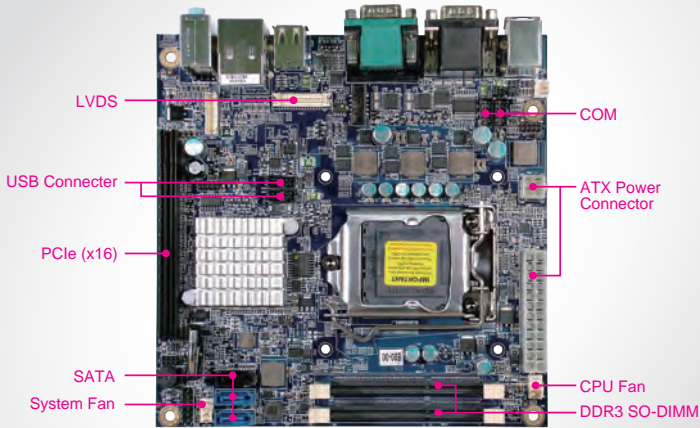


# BM-0947

Mini-ITX Intel® 4th Gen. Core™ i7 / i5 / i3 / Pentium® Desktop CPU / Single LAN



## Features



- Intel® 4th Gen. Core™ i7 / i5 / i3 CPU
- Intel® H81 chipset
- 6 x COM, 8 x USB, 2 x PS/2, 1 x LAN
- 1 x VGA, 1 x LVDS
- 3 x SATA
- 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® H81
Memory Support	2 x SO-DIMM sockets, supporting 1333/1600MHz DDR3 up to 16GB (non-ECC)
BIOS	AMI BIOS
Watchdog	1~255 seconds watchdog timer selectable
Power Supply	Supports ATX power
Power Consumption	+5V: 1.05A; +12V: 1.92A; +3.3V: 0.4A; +5VSB: 0.16A (CPU: i7-4770S)
Dimensions	170 x 170 mm (6.69" x 6.69")
Certifications	CE / FCC
O.S. Support	Windows 8 / Windows 7

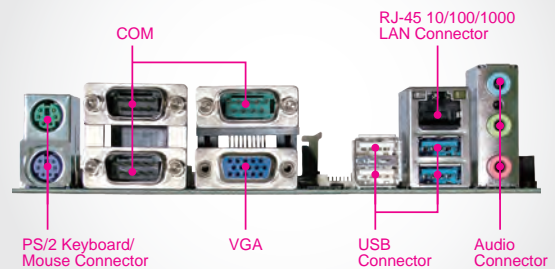
### Graphics

VGA	1 x VGA (rear I/O) up to 1920 x 1200 @60Hz
LVDS	1 x LVDS (internal), up to 18/24 bits, dual channel Resolution range: 800 x 600~1920 x 1200

### Environment

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

## I/O Panel View



## I/O Ports

SATA Interface	2 x SATA 3.0, 1 x SATA 2.0
Expansion Bus	1 x PCIe (x16)
Serial Ports	6 x ports COM 1/3: RS-232 (rear I/O) COM 2: RS-232/422/485 (rear I/O), selected by jumper COM 4~6: RS-232 (internal wafer) COM 1/2 supports 5V/12V selected by jumper
LAN	Single LAN (1 x RJ45 on rear I/O) LAN 1: Intel® i217 (GbE) Supports Wake-On-LAN
Audio	Mic In / Line In / Line Out (rear I/O)
Keyboard/Mouse	2 x PS/2 (rear I/O)
USB	8 ports 2 x USB 2.0 (rear I/O) 2 x USB 3.0 (rear I/O) 4 x USB 2.0 (internal wafer)
FAN	1 x CPU fan (4 pin), 1 x system fan (4 pin), 1 x system fan (3 pin)

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