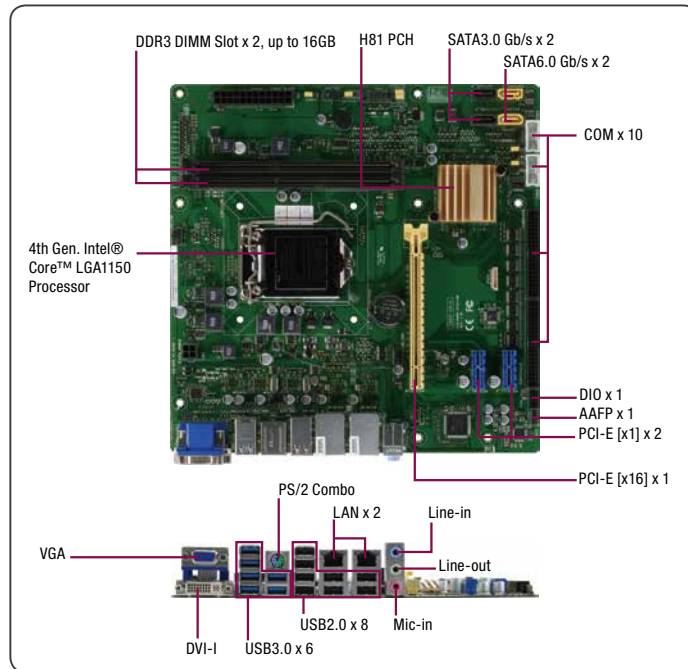


# 10 IMBM-H81B

Micro-ATX with Intel® 4th Generation Core™ Processor, DDR3 DRAM, USB x 14



## Features

- 4th Gen. Intel® Core™ LGA1150 Processor
- DDR3 DRAM Support, 1600MHz, Max. 16GB
- Two Independent Display: VGA x 1, DVI-I Port x 1
- Realtek 8111G, Gigabit Ethernet x 2
- USB 3.0 Port x 6, USB 2.0 Port x 8
- COM Port x 10 (RS-232 x 9, RS-232/422/485 x 1)



### Rear Panel I/O Ports

USB	USB 3.0 x 6, USB 2.0 x 8
Display I/O	DVI-I x 1, VGA x 1
Audio I/O	Line-in, Mic-in, Line-out
LAN I/O	RJ-45 x 2
Serial Port	—
PS/2 Port	Combo Port (Keyboard & Mouse) x 1
Others	—

### Internal I/O Connectors

Storage	SATA 6.0Gb/s x 2, SATA 3.0Gb/s x 2
USB	—
Display I/O	—
Audio I/O	AAFP x 1
Serial Port	RS-232/422/485 x 1, RS-232 x 9
PS/2 Port	—
Parallel Port	—
DIO	8-bit x 1 (In/Out programmable)
FAN	4-pin CPU Fan x 1, 4-pin Chassis Fan x 2
Others	Front panel header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1

### OS

OS Support	Windows® 7 32/64-bit, Windows® 8.1 32/64-bit, Linux Fedora
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## Specifications

System	
Processor	Intel® 4th Generation Core™ i7/i5/i3/Pentium®/Celeron® 22nm LGA 1150 socket Processor
Chipset	Intel® H81
Memory	240-pin DIMM x 2, max. 16GB, DDR3 1600/1333, Dual channel
I/O Chipset	F81866D, F81216HD
Ethernet	Realtek PCIe Gb LAN 8111G x 2
Audio	Realtek® ALC887
TPM	—
Expansion Slots	PCIe [x16] x 1, PCIe [x1] x 2
BIOS	64Mbit Flash ROM x 1, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	CPU Fan/ Chassis Fan x 2
Wake On LAN/ PXE	Yes (WOL/PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Intel® HD Graphics
Graphics Multi Display	VGA+DVI-D, VGA+VGA
VGA	Up to 1920 x 1200 @60Hz
DVI	Up to 1920 x 1200 @60Hz
HDMI	—
Display Port	—
LVDS	—
eDP	—
Backlight Control	—
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	24-pin ATX connector x 1, 4-pin ATX 12V Power connector x 1
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operation Humidity	0% ~ 90% RH, non-condensing
Certificate	CE & FCC Class A
Form Factor	Micro-ATX, 9.6" x 9.6" (244mm x 244mm)
Weight	1.76 lb (0.8 Kg)
MTBF (Hours)	220,420

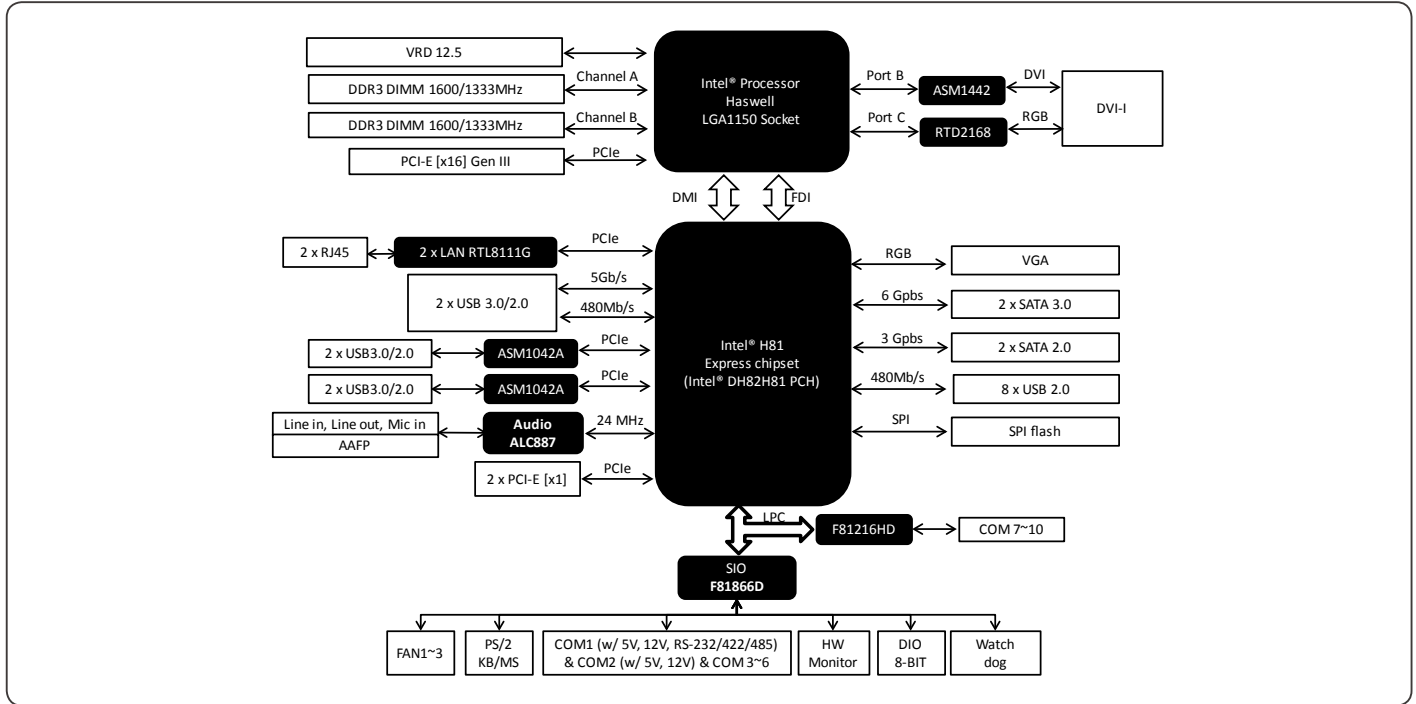
## Packing List

- I/O Shield
- 14001-00630100  
SATA 6G Cable (7P, 180; 90, 500mm 2 in 1)
- Product CD
- IMBM-H81B

## Optional Accessories

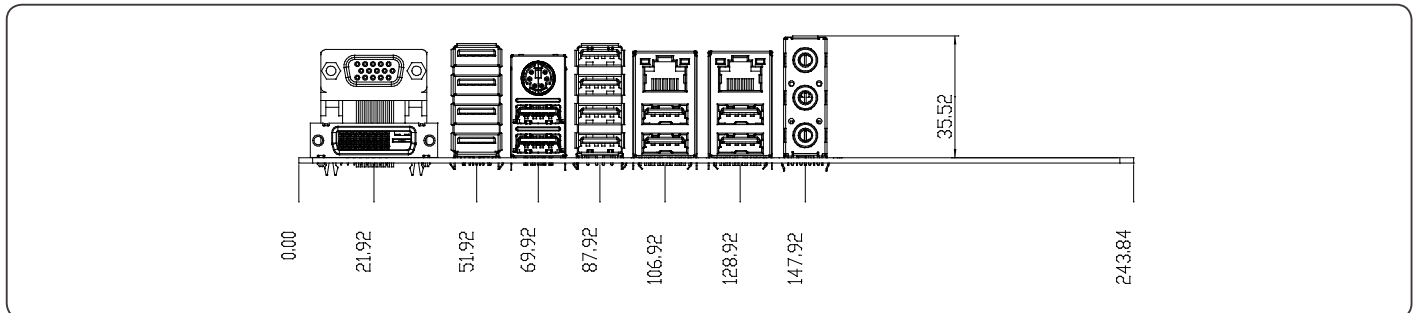
- 1709100330  
USB 2.0 cable (9P, 330MM, p=2.54mm, w/bracket)
- 175921156B  
CPU Cooler (2-Ball, Push-pin Type)
- 170910020K  
USB 2.0 cable (9P, 330MM, p=2.54mm, w/o bracket)
- 1759200172  
CPU Cooler (2-Ball, Screw with Retention Plate)

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part number	CPU	RAM	Fan/Fanless	Display	Storage	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
IMBM-H81B-A10	LGA1150 Socket	DDR3 1600	Fan	VGA x 1, DVI-I x 1	SATA3 x 2, SATA2 x 2	—	GbE x 2	USB3.0 x 6, USB2.0 x 8	9	1	PCIe[x16] x 1, PCIe[x1] x 2	ATX	—	32°F ~ 140°F (0°C ~ 60°C)