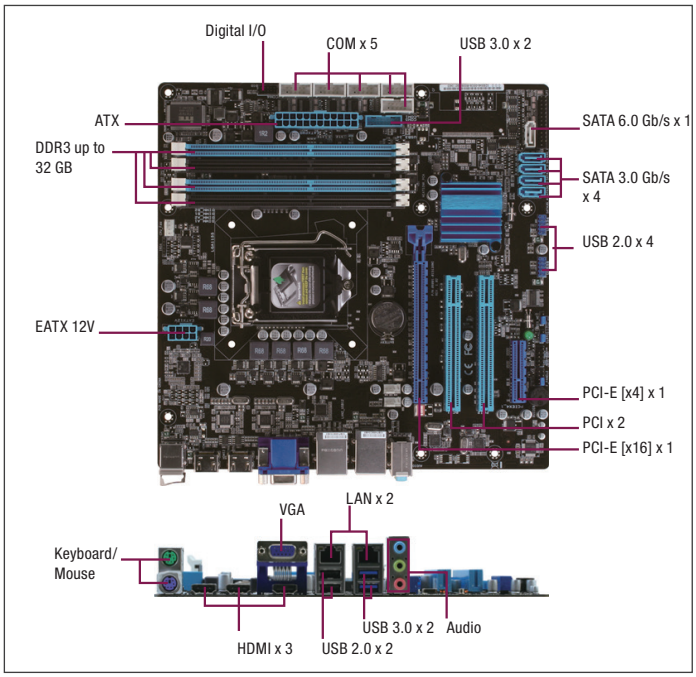
IMBM-B75A

Micro-ATX Industrial Motherboard with 2nd/3rd Generation Intel® Core™ i7/i5/i3 Pentium® Processor



Features

- **2nd/3rd Generation Intel® Core™ i7/i5/i3 Processors**
- **Intel® B75**
- **DDR3 1600/1333/1066 MHz DIMM x 4, Up to 32 GB**
- **Dual/Three Independent Display: VGA, HDMI x 3**
- **Gigabit Ethernet x 2**
- **TPM Onboard**
- **SATA 6.0 Gb/s x 1, SATA 3.0 Gb/s x 4**
- **USB 3.0 x 4, USB 2.0 x 6**

PCI Express | Gigo LAN | DDR 3 | USB 3.0 | USB 2.0 | HDMI

Rear Panel I/O Ports	
USB	USB 3.0 port x 2, USB 2.0 port x 2
Display I/O	VGA x 1, HDMI x 3
Audio I/O	Audio Jack x 3: Line-in, Mic-in, Line-out
LAN I/O	LAN (RJ-45) port x 2
Serial Port	—
PS/2 Port	Keyboard connector x 1, Mouse connector x 1
Others	—
Internal I/O Connectors	
Storage	SATA3 (6.0Gb/s) connector x 1, SATA2 (3.0Gb/s) connector x 4
USB	USB 3.0 connector x 1 supports additional USB port x 2, USB 2.0 connector x 2 supports additional USB port x 4
Display I/O	—
Audio I/O	—
Serial Port	RS-232/422/485 header x 1 (COM1), RS-232 header x 4
PS/2 Port	—
Parallel Port	LPT connector x 1, supports SPP/EPP/ECP mode
DIO	8-bit Digital I/O interface x 1 (In/Out programmable)
FAN	CPU Fan connector (4-pin) x 1, Chassis Fan connector (4-pin) x 1
Others	Front panel header x 2, IrDA header x 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1
OS	
OS Support	Windows® XP 32/64-bit, Windows® 7 32/64-bit, Linux Fedora

Specifications

System	
Processor	2nd/3rd Generation Intel® Core™ i7/i5/i3/Pentium®/ Celeron® 22nm LGA 1155 Processors
Chipset	Intel® B75 Express Chipset
Memory	240-pin DIMM x 4, max. 32GB, DDR3 1600/1333 MHz, non-ECC, un-buffered memory, Dual channel memory architecture
I/O Chipset	ITE IT8783F
Ethernet	Realtek RTL8111F Giga LAN x 2
Audio	Realtek® ALC887
TPM	Infineon SLB9635 TT 1.2
Expansion Slots	PCIe 3.0/2.0[x16] x 1, PCIe 2.0[x4] x 1, PCI x 2
BIOS	64Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	CPU Fan/ Chassis Fan
Wake On LAN/ PXE	Yes (WOL/PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Intel® HD Graphics
Graphics Multi Display	VGA+HDMI, HDMI+HDMI; 3rd Generation Processors support: VGA+HDMI+HDMI, HDMI+HDMI+HDMI
VGA	Up to 1920 x 1200 @60Hz
DVI	—
HDMI	Up to 1920 x 1080 @60Hz
Display Port	—
LVDS	—
eDP	—
Backlight Control	—
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	24-pin ATX connector x 1, 8-pin ATX 12V Power connector x 1
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% RH, non-condensing
Certificate	CE & FCC Class A
Form Factor	Micro-ATX Form Factor, 9.6" x 9.6" (244mm x 244mm)
Weight	1.76 lb (0.8 Kg)
MTBF (Hours)	83,621

Packing List

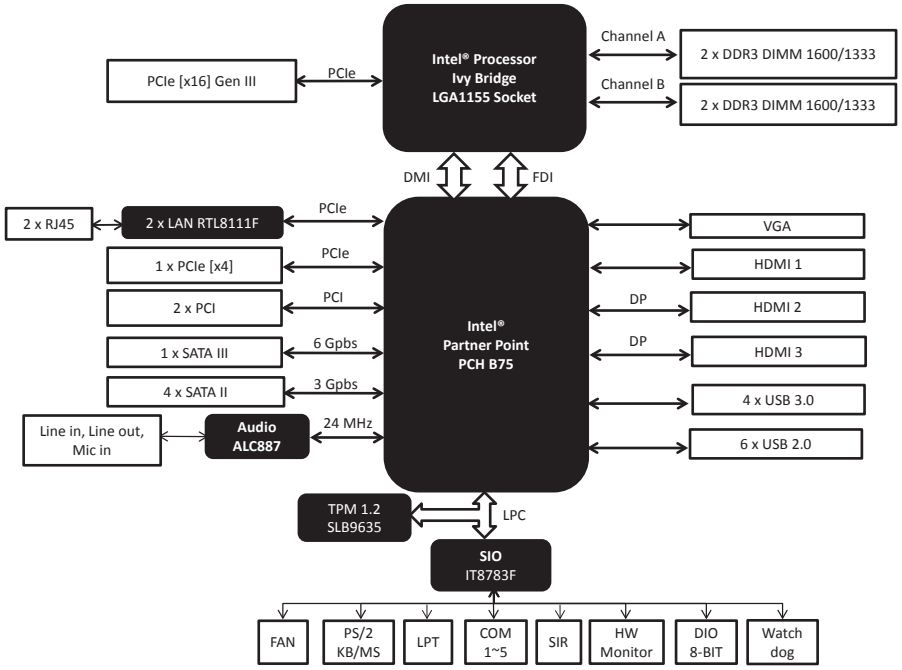
- **14001-00400100**
  COM Cable (9P, 260MM, p=2.54mm) w/bracket
- **I/O Shield**
- **14001-00700100**
  SATA 3G Cable (7P, 180; 90, 500mm) 2 in 1
- **Product CD**
- **IMBM-B75A**

Optional Accessories

- **175921156B**
  CPU Cooler (2-Ball, Push-pin Type)
- **1759200172**
  CPU Cooler (2-Ball, Screw with Retention Plate)
- **1709070800**
  SATA Cable
- **1701100260**
  COM Cable (4P, 260MM, p=2.54mm)
- **1701260305**
  LPT Cable (25P, 270MM)
- **1709100330**
  USB 2.0 cable (9P, 330MM, p=2.54mm, w/bracket)
- **170910020K**
  USB 2.0 cable (9P, 200MM, p=2.54mm, w/o bracket)
- **1700190450**
  USB 3.0 Cable (450MM, p=2.54mm)

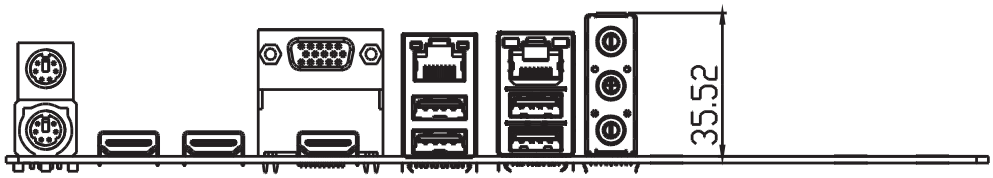
Note: All specifications are subject to change without notice.

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-B75A-A30	LGA1155 socket	DDR3 1600/1333/1066	Fan	VGA, HDMI x 3	SATA2 x 4, SATA3 x 1	—	GbE x 2	USB 3.0 x 4, USB 2.0 x6	4	1	PCIe[x16] x 1, PCIe [x4] x 1, PCI x 2	ATX	Onboard	32°F ~ 140°F (0°C ~ 60°C)