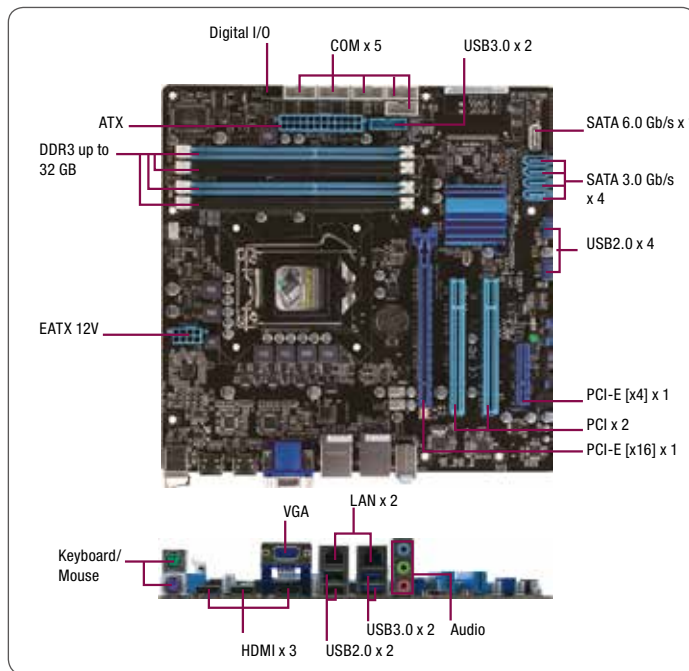


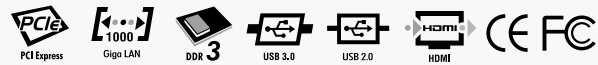
# IMBM-B75A

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



## Features

- Intel® 2nd/3rd Generation 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
- USB3.0 x 4, USB2.0 x 6



## Specifications

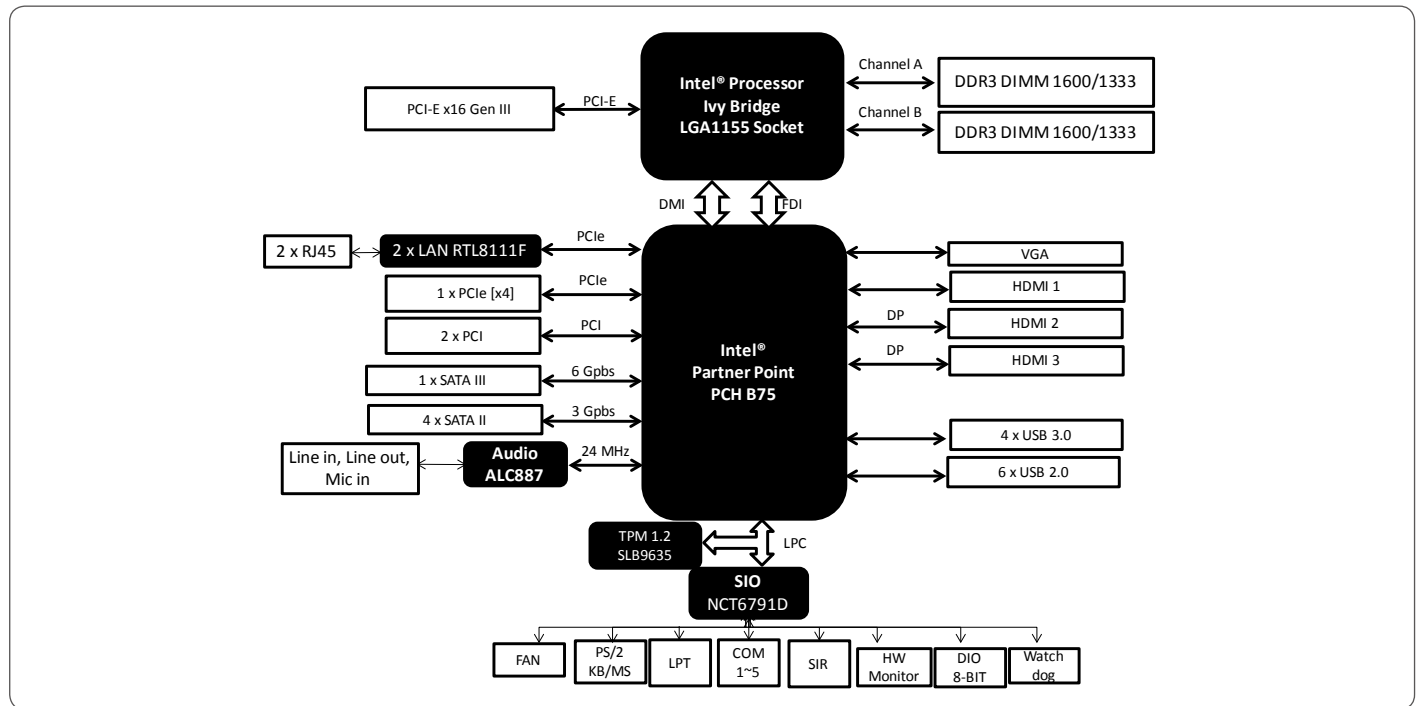
System	
Form Factor	Micro ATX
Processor	Intel® 2nd/3rd Generation Core™ i7/i5/i3 Processors
System Memory	Dual-Channel DDR3 1066/1333/1600 MHz DIMM x 4, up to 32 GB Un-buffered Memory
Chipset	Intel® B75
I/O Chipset	ITE IT8783F
Ethernet	Realtek 8111F, Gigabit Ethernet, RJ-45 x 2
BIOS	AMI BIOS SPI flash ROM - 64Mb
Wake On LAN	Onboard (Infineon SLB9635)
Watchdog Timer	1~255 steps, can be set with software on Super I/O
TPM	Onboard (Infineon SLB9635)
H/W Status Monitoring	Temperature Monitor on CPU/Chassis Voltage Monitor on Vcore /5V/3.3V/12V Fan Monitor on CPU/Chassis
Expansion Interface	PCI-E [x16] x 1, PCI-E [x4] x 1, PCI x 2
Battery	Lithium battery
Power Requirement	24-pin ATX connector x 1, 8-pin ATX 12V connector x 1, CPU fan x 1, System fan x 2 with 4-pin wafer for Smart FAN support
Power Consumption	—
Board Size	9.6" x 9.6" (244 mm x 244 mm)
Gross Weight	1.76 lb (0.8 kg)
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
MTBF (Hours)	83,000
Display	
Graphic Engine	Intel® Graphics Media Accelerator
Resolution	VGA: 1920 x 1200 @60 Hz HDMI: 1920 x 1080 @60 Hz
Output Interface	VGA+HDMI1, VGA+HDMI2, VGA+HDMI3, HDMI1+HDMI2, HDMI1+HDMI3, HDMI2+HDMI3, VGA+HDMI1+HDMI2, VGA+HDMI2+HDMI3, VGA+HDMI1+HDMI3 (Only 3rd Gen. Processors Support three independant display)
I/O	
Storage	SATA 6.0 Gb/s x 1, SATA 3.0 Gb/s x 4
Serial Port	COM 1: RS-232/422/485 x 1 (Box header) COM 2-5: RS-232 x 4 (Box header)
Parallel Port	SPP/EPP/ECP Mode
USB	USB3.0 x 4, USB2.0 x 6
Digital I/O	8-bit programmable (4-in / 4-out)
PS/2 Port	PS/2 Port x 2 (Keyboard & Mouse)
Audio	Line-in, Mic-in, Line-out

## Packing List

- SATA Cable
- 17001100260  
COM Cable (4P, 260mm, P=2.54mm w/bracket)
- I/O Shield
- Product CD
- IMBM-B75A

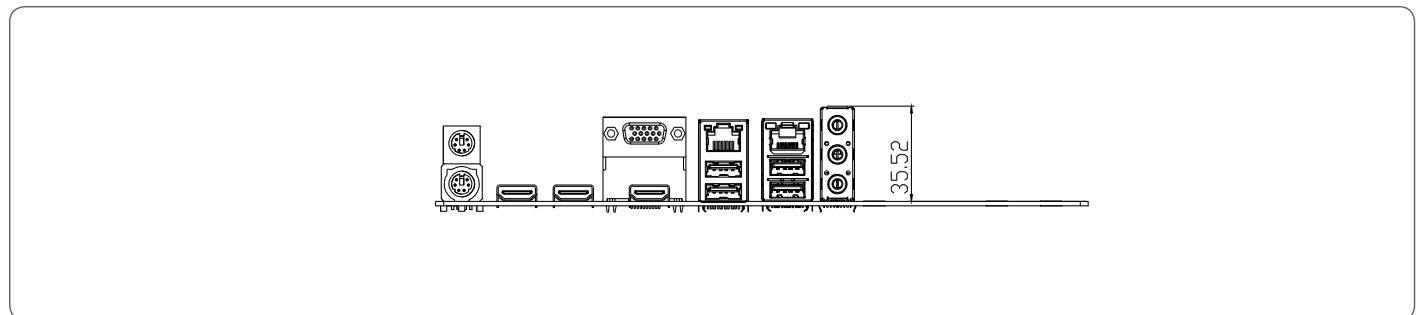
# IMBM-B75A

## 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-A20-G2	Socket	DIMM	Fan	VGA, HDMI x 3	SATA 2 x 4, SATA 3 x 1	—	GbE x 2	USB2.0 x 6, USB3.0 x 4	4	1	PCI-E [x16] x 1, PCI-E [x4] x 1, PCI x 2	ATX	Onboard	0°C ~ 60°C

## 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**  
USB3.0 Cable (450MM, p=2.54mm)