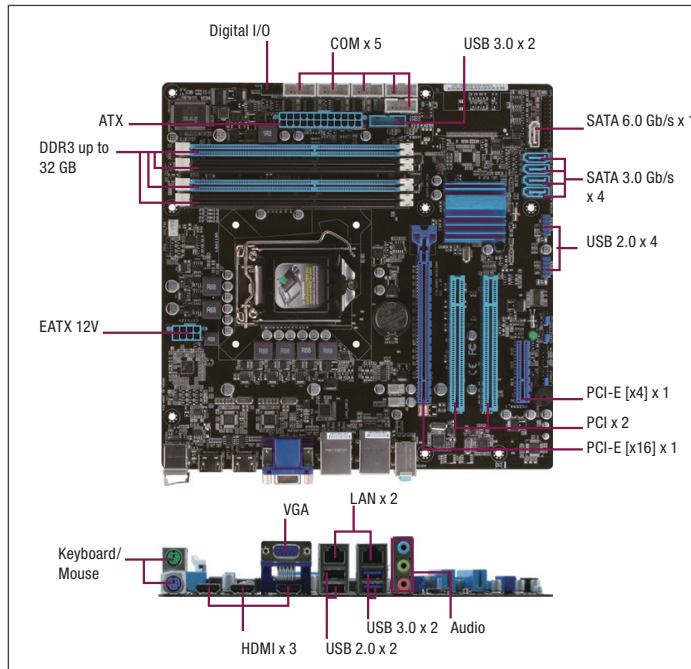


Micro-ATX Industrial Motherboard with 2nd/3rd Generation Intel® Core™ i7/i5/i3 Pentium® Processor

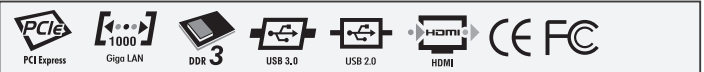


Specifications

| 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 |

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



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 |

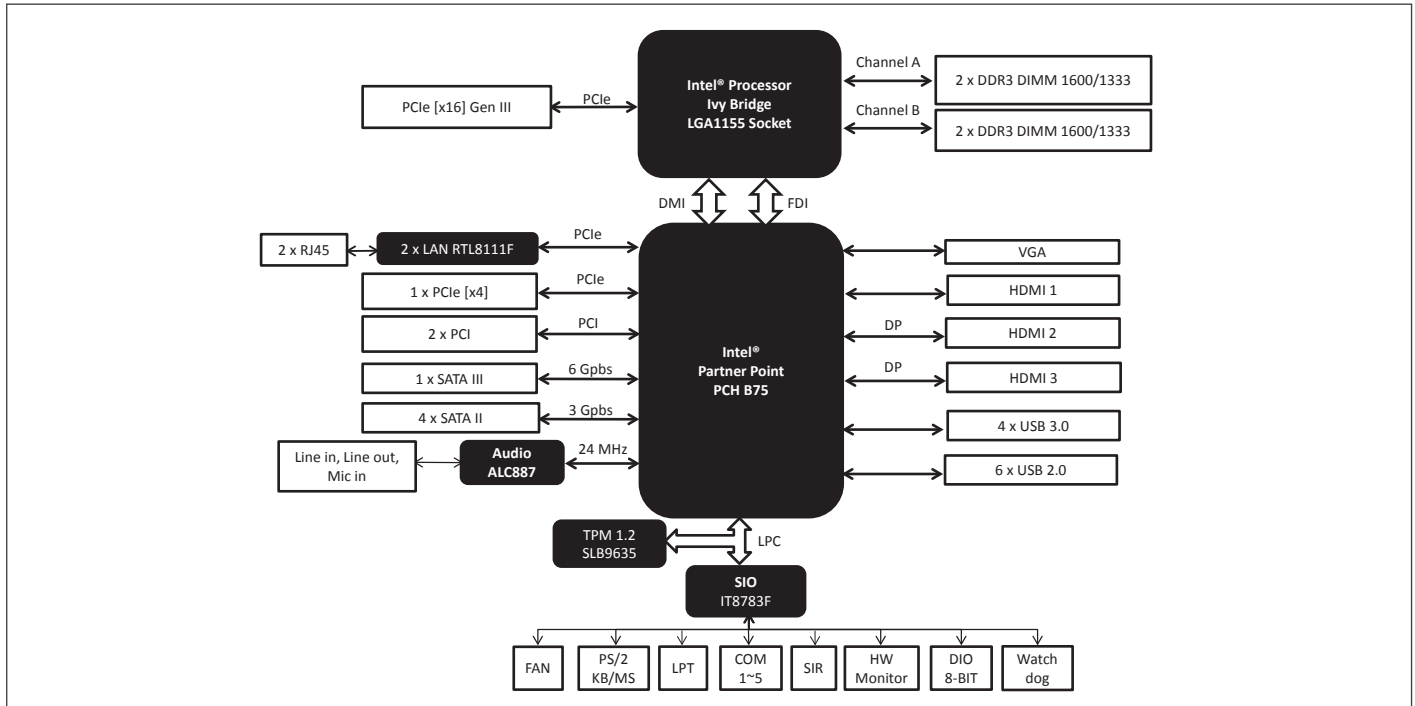
Packing List

- 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

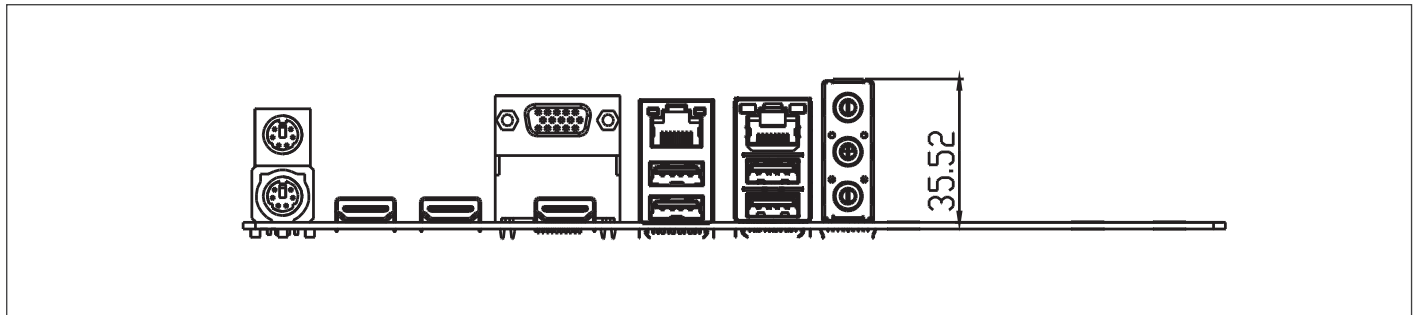
- 175921156B
CPU Cooler (2-Ball, Push-pin Type)
- 1759200172
CPU Cooler (2-Ball, Screw with Retention Plate)
- 1709070800
SATA Cable
- 1701100260
COM Cable (4P, 260MM, p=2.54mm)
- 1701260305
LPT Cable (25P, 270MM)
- 1709100330
USB 2.0 cable (9P, 330MM, p=2.54mm, w/bracket)
- 170910020K
USB 2.0 cable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

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 x 6 | 4 | 1 | PCIe[x16] x 1, PCIe [x4] x 1, PCI x 2 | ATX | Onboard | 32°F ~ 140°F (0°C ~ 60°C) |