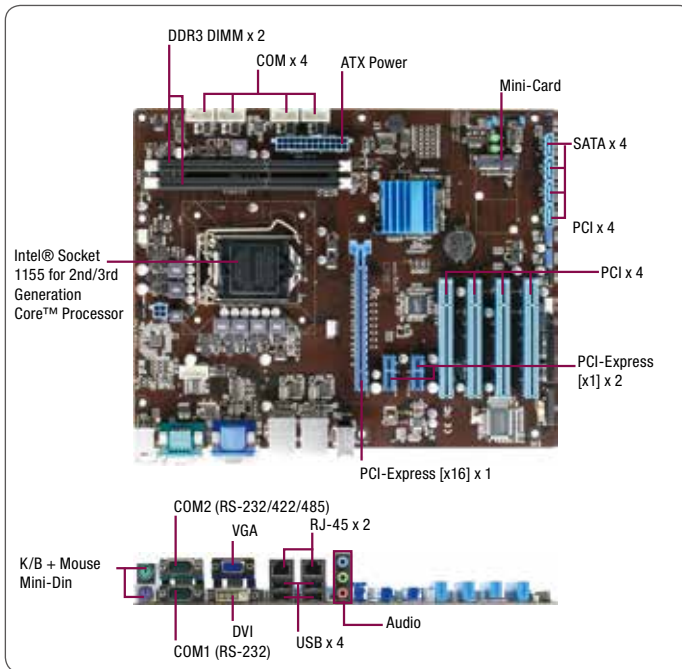


IMBA-H61A

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



Features

- Intel® Socket 1155 for 2nd/3rd Generation Core™ Processor
- Intel® H61 Express Chipset
- DDR3 1066/1333 MHz DIMM x 2, Up to 16 GB
- VGA, DVI Dual Independent Display
- Realtek RTL8111F x 2, Gigabit Ethernet x 2
- PCI-E [x16] x 1, PCI-E [x1] x 2, PCI x 4, Mini-Card x 1
- TPM Support



Specifications

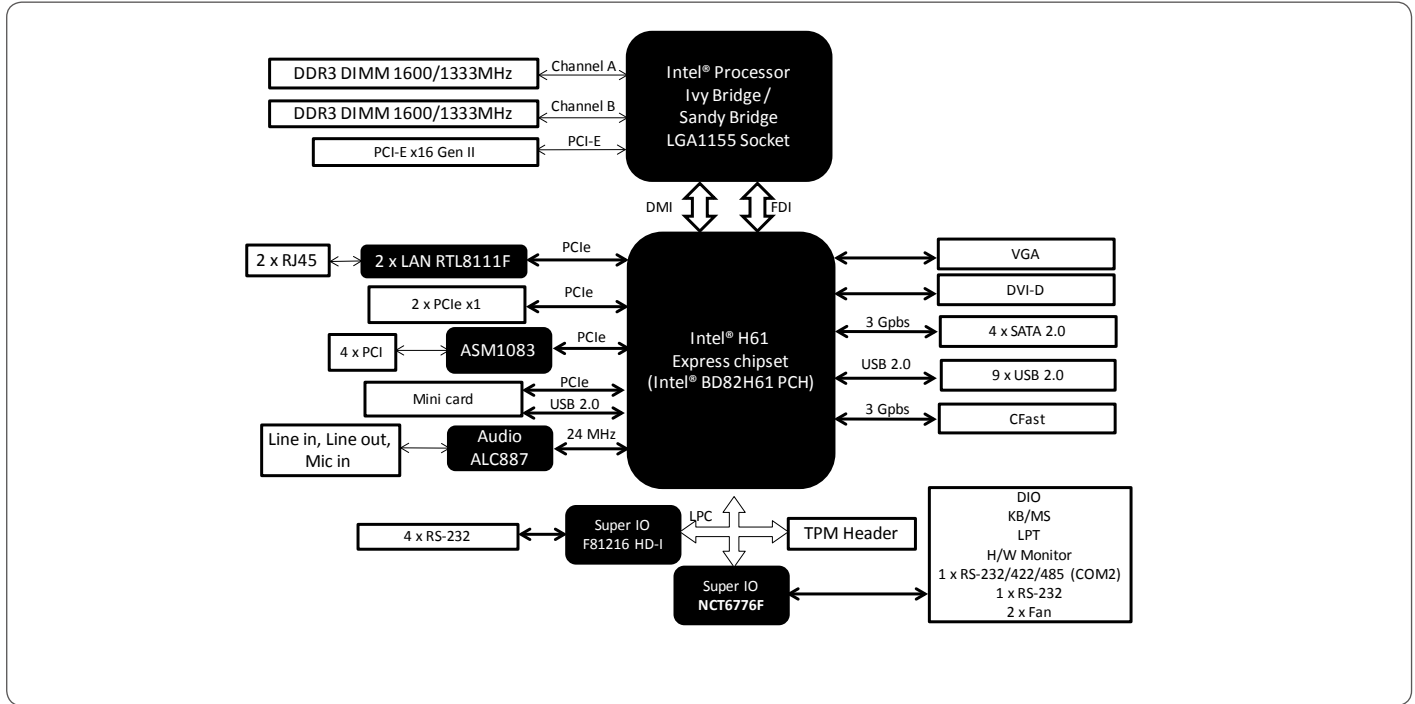
System	
Form Factor	ATX
Processor	LGA1155 socket for Intel® 2nd/3rd Generation Core™ i7/i5/i3/ Pentium®/ Celeron® Processors
System Memory	DDR3 1333/1066 MHz DIMM x 2, up to 16 GB, Non-ECC, Un-buffered Memory
Chipset	Intel® H61 Express Chipset
I/O Chipset	NCT6776F + F81216HD (4 COM Port)
Ethernet	Realtek 8111F, Gigabit Ethernet, RJ-45 x 2
BIOS	64Mbit Flash ROM, AMI BIOS
Wake On LAN	Yes (WOL / PXE)
Watchdog Timer	1~255 steps by software program
TPM	Yes, FW3.19
H/W Status Monitoring	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/VBAT/12V, Fan Monitor on CPU/ Chassis
Expansion Interface	PCI-E [x16] x 1, PCI-E [x1] x 2, PCI x 4, Mini-Card x 1
Battery	Lithium battery
Power Requirement	24-pin ATX connector x 1 4-pin ATX 12V Power connector x 1
Power Consumption (Typical)	Intel® Celeron® G460, DDR3 1600 DIMM 8 GB 0.52A@12V; 0.97A@5V; 1.13A@3.3V
Board Size	12" x 9.6" (305mm x 244mm)
Gross Weight	1.45 lb (0.66 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)	136,000
Display	
Graphic Engine	Intel® Graphics Media Accelerator
Resolution	Up to 1920 x 1200 @60 Hz for VGA Up to 1920 x 1200 @60 Hz for DVI
Output Interface	VGA, DVI
I/O	
Storage	SATA 3.0 Gb/s x 4
Serial Port	RS-232/422/485 x 1 (COM2)(on back panel) RS-232 x 1 (on back panel) RS-232 x 4 (internal connector)
Parallel Port	Support SPP/EPP/ECP modes
Universal Serial Bus	USB2.0 x 9 (5 on mid-board, 4 on back panel)
Digital I/O	8-bit Digital I/O x 1 (In/out programmable)
PS/2 Port	Keyboard with PS/2 connector x 1, Mouse with PS/2 connector x 1
Audio	Line-in, Mic-in, Line-out

Packing List

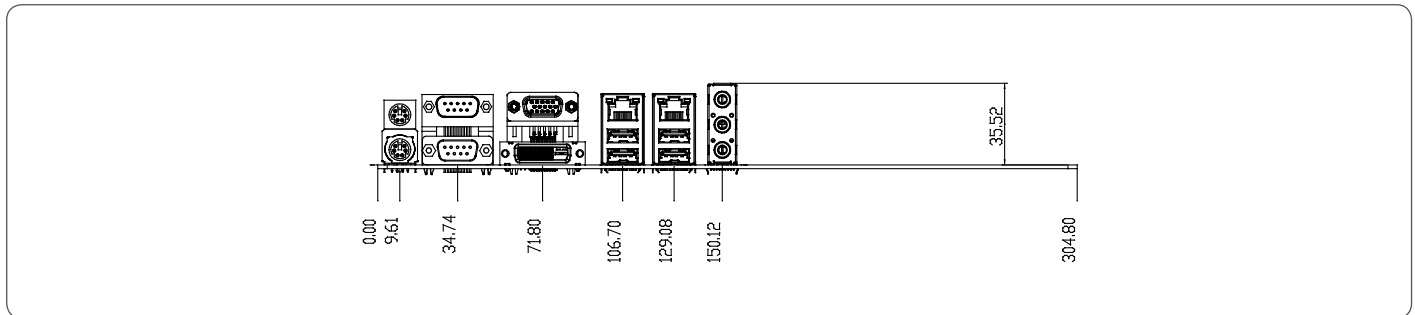
- I/O Shield
- SATA Cable x 2
- 1701100260
COM Cable (4p, 260mm, p=2.54mm) w/bracket
- Product CD
- IMBA-H61A

IMBA-H61A

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.
IMBA-H61A-A10	Socket	DIMM	Fan	VGA, DVI	SATA2 x 4	—	GbE x 2	USB2.0 x 9	5	1	PCI-E [x16] x 1 PCI-E [x1] x 2 PCI x 4 Mini-Card x 1	ATX	20-1 Pin Header	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
- **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)
- **170910020A**
USB2.0 Cable (5P, 220MM, p=2.00mm)