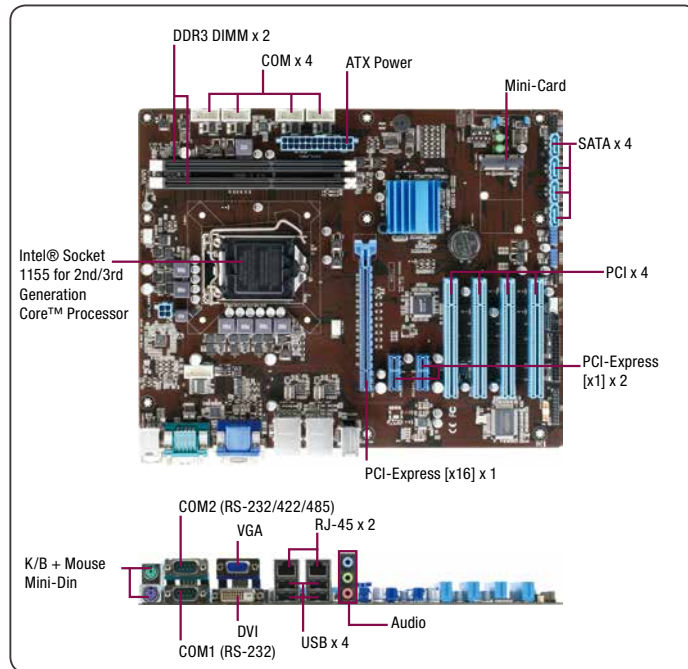


10 IMBA-H61A

Industrial Motherboards

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 Optional (Via Pin Header)



Rear Panel I/O Ports

USB	USB 2.0 port x 4
Display I/O	VGA x 1, DVI-D x 1
Audio I/O	Audio Jack x 3: Line-in, Mic-in, Line-out
LAN I/O	LAN (RJ-45) port x 2
Serial Port	DB-9 connector COM x 2 (COM2 supports RS-232/422/485)
PS/2 Port	PS/2 Keyboard Connector x 1, PS/2 Mouse Connector x 1
Others	—

Internal I/O Connectors

Storage	SATA2 (3.0Gb/s) connector x 4
USB	USB 2.0 2x5-pin connector x 2 supports additional USB port x 4, USB 2.0 1x5-pin connector x 1 supports USB port x 1
Display I/O	—
Audio I/O	—
Serial Port	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(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 1
Others	Front panel header x 1, Clear CMOS jumper x 1, TPM header x 1, BIOS flash header (2[x4]P p=1.27mm) x 1
OS	
OS Support	Windows® XP 32-bit, Windows® 7 32/64-bit, Windows® 8.1 32/64-bit

Specifications

System	
Processor	Intel® 3rd/ 2nd Generation Core™ i7/i5/i3/Pentium® / Celeron® 22nm LGA 1155 Processors
Chipset	Intel® H61 Express Chipset
Memory	240-pin DIMM x 2, max. 16GB, DDR3 1333/1066/800 MHz, non-ECC, un-buffered memory, Dual channel memory architecture
I/O Chipset	NCT6776F
Ethernet	Realtek RTL8111F Giga LAN x 2
Audio	Realtek® ALC887 (Colay with ALC886)
TPM	20-1 PIN header for TPM1.2/FW3.19
Expansion Slots	PCIe 2.0[x16] Slot x 1, PCIe 2.0 [x1] slot x 2, PCI x 4, Full/Half Size Mini-card x 1
BIOS	64Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/VBAT/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+DVI
VGA	Up to 1920 x 1200 @60 Hz
DVI	Up to 1920 x 1200 @60 Hz
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
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	ATX Form Factor, 12" x 9.6" (305 mm x 244 mm)
Weight	1.45 lb (0.66Kg)
MTBF (Hours)	136,599

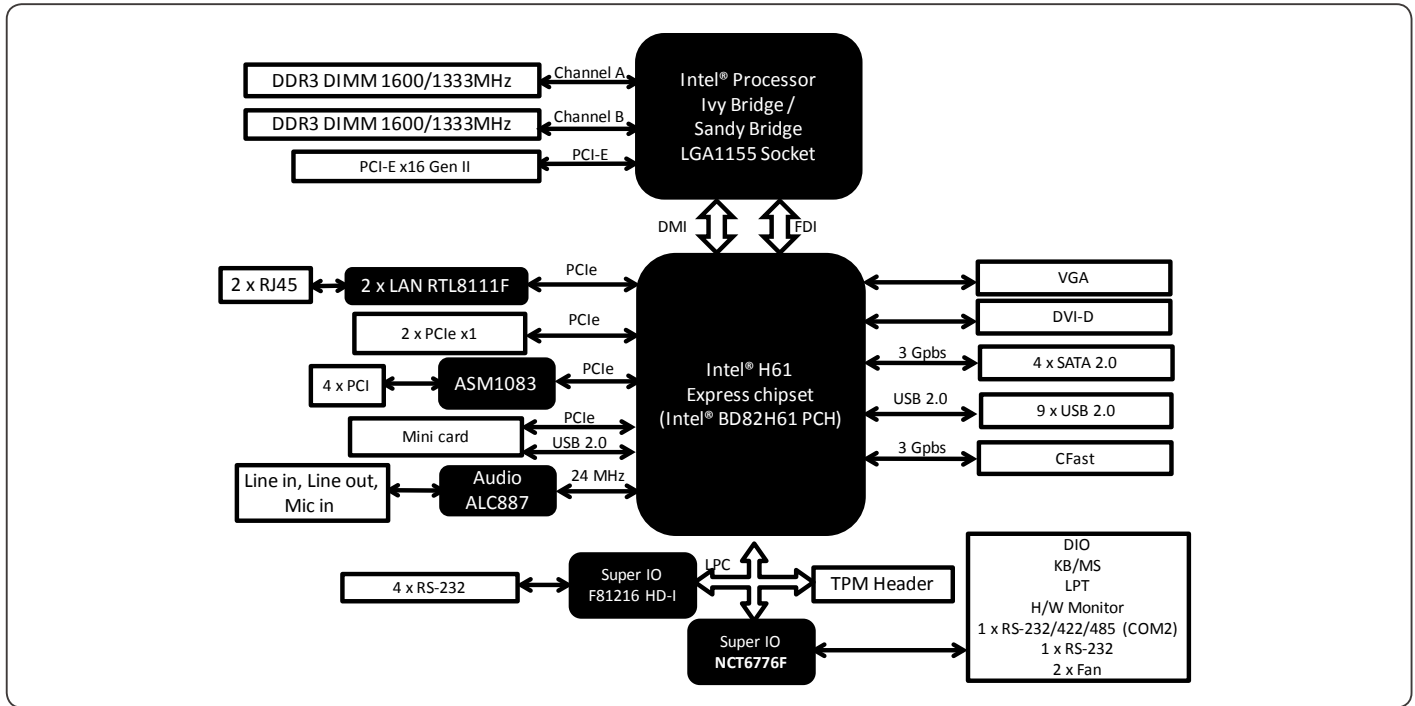
Packing List

- I/O Shield
- 14001-00700100
SATA 3G Cable (7P, 180; 90, 500mm) 2 in 1
- 14001-00400100
COM Cable (9P, 260MM, p=2.54mm) w/bracket
- Product CD
- IMBA-H61A

Optional Accessories

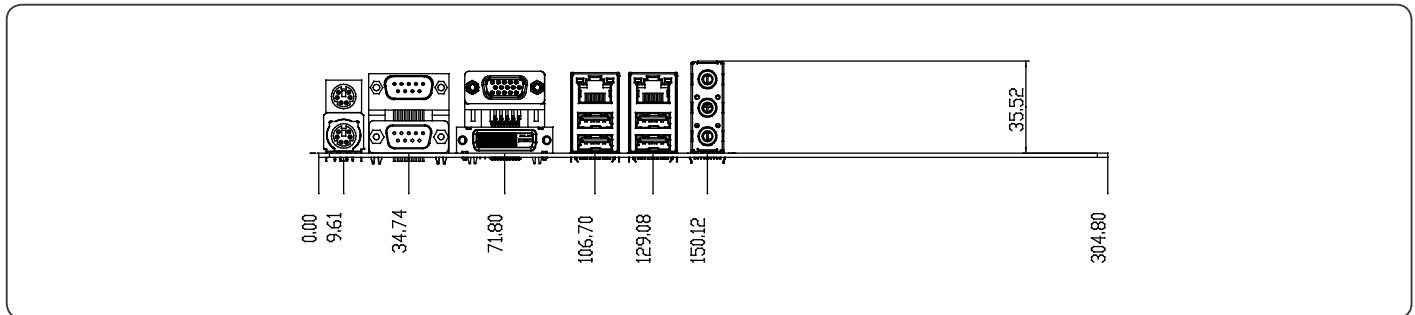
- 175921156B
CPU Cooler (2-Ball, Push-pin Type)
- 1759200172
CPU Cooler (2-Ball, Screw with Retention Plate)
- 1709070800
SATA Cable
- 1701260305
LPT Cable (25p, 270MM)
- 1709100330
USB 2.0 cable (9P, 330MM, p=2.54mm, w/bracket)
- 170910020K
USB 2.0 cable (9P, 200MM, p=2.54mm, w/o bracket)
- 170910020A
USB 2.0 Cable (5P, 220MM, p=2.00mm)

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-A20	LGA1155 socket	DDR3 1333/1066	Fan	VGA, DVI	SATA2 x 4	—	GbE x 2	USB 2.0 x 9	5	1	PCIe[x16] x 1, PCIe[x1] x 2, PCI x 4, Mini-Card x 1	ATX	20-1 Pin Header	32°F ~ 140°F (0°C ~ 60°C)