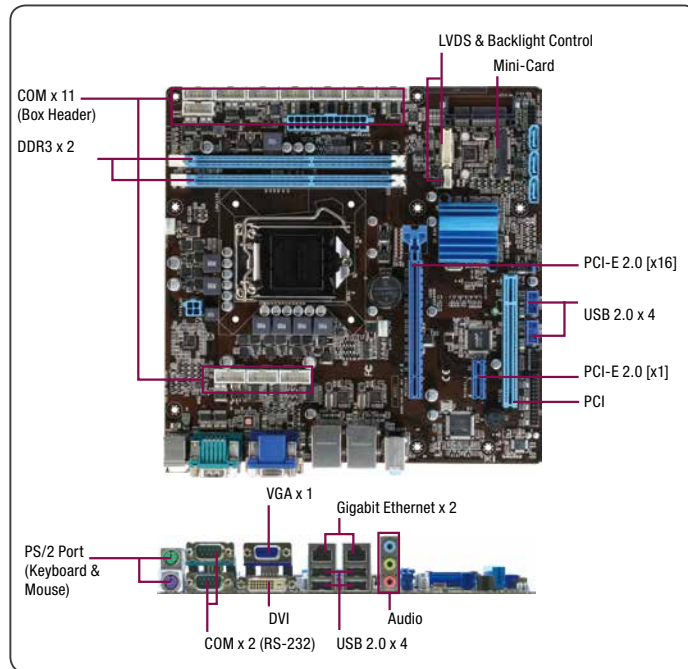


# 10 IMBM-H61A

Industrial Motherboards

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



## Features

- Intel® 2nd/3rd Generation Core™ i7/i5/i3 Processor
- Intel® H61
- VGA x 1, DVI x 1, LVDS x 1
- Gigabit Ethernet x 2
- COM x 13 (RS-232 x 11, RS-232/422/485 x 2)
- SATA 3.0 Gb/s x 3 + CFAST™ Socket x 1
- Multiple Expansion Slot: PCI-E 2.0 [x16] x 1, PCI-E 2.0 [x1] x 1, PCI x 1, Mini-Card x 1



### 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	RS232 DB-9 connector x 2
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 3, CFAST™ Socket x 1
USB	USB 2.0 connector x 2 supports additional USB port x 4
Display I/O	LVDS x 1
Audio I/O	—
Serial Port	RS-232/422/485 box header x 2, RS-232 box header x 9
PS/2 Port	—
Parallel Port	LPT connector x 1
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 1, Clear CMOS jumper x 1, BIOS flash header (2[x4]P p=1.27mm) x 1
<b>OS</b>	
OS Support	Windows® XP 32-bit, Windows® 7 32/64-bit, Linux Fedora

## 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	Fintech 81866D (5 COM), Fintech 81216HD (8 COM) x 2
Ethernet	Realtek RTL8111F Giga LAN x 2
Audio	Realtek ALC887
TPM	—
Expansion Slots	PCI-E 2.0[x16] Slot x 1, PCIe 2.0 [x1] Slot x 1, PCI x 1, Half Size Mini-Card x 1
BIOS	64Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/Chassis, 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 + LVDS, VGA+DVI, LVDS+DVI
VGA	Up to 1920 x 1200 @75Hz
DVI	Up to 1920 x 1200 @60 Hz
HDMI	—
Display Port	—
LVDS	Up to 1920 x 1200 @60 Hz
eDP	—
Backlight Control	Voltage/ PWM
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% ~ 80% RH, non-condensing
Certificate	CE & FCC Class A
Form Factor	Micro-ATX Form Factor, 9.6" x 9.6" (244mm x 244mm)
Weight	1.55 lb (0.7 Kg)
MTBF (Hours)	87,274

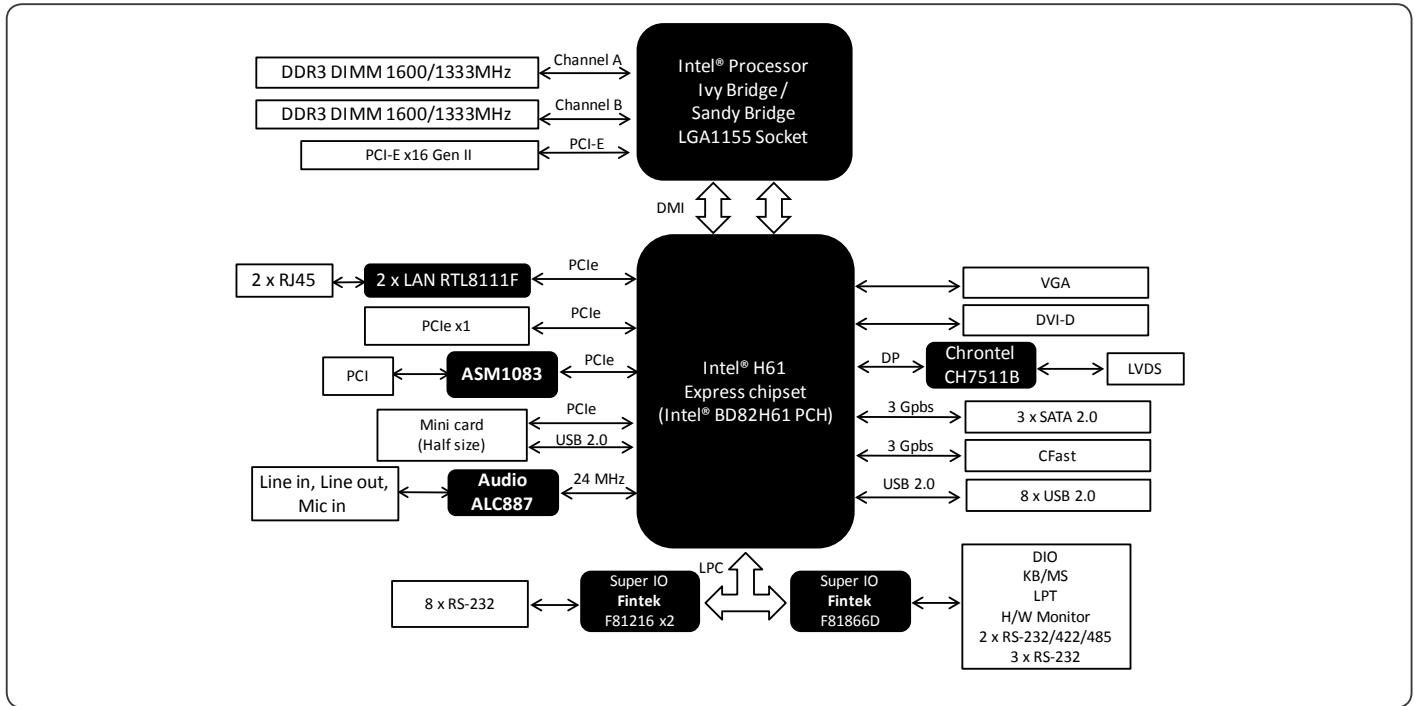
## Packing List

- 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-H61A

## Optional Accessories

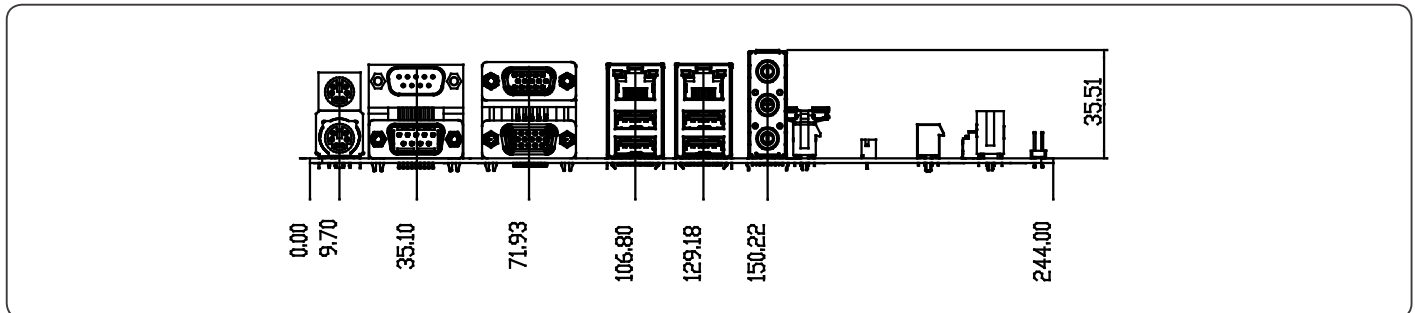
- 1709100330  
USB 2.0 cable (9P, 330MM, p=2.54mm, w/bracket)
- 170910020K  
USB 2.0 cable (9P, 200MM, p=2.54mm, w/o bracket)
- 1759200172  
CPU Cooler (2-Ball, Screw with Retention Plate)
- 175921156B  
CPU Cooler (2-Ball, Push-pin Type)
- 1709070800  
SATA Cable
- 1701260305  
LPT Cable (25P, 270MM)

## 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	Temp.
IMBM-H61A-A10-G2	LGA1155 socket	DDR3 1600/1333/1066	Fan	VGA, DVI	SATA2 x 3, CFAST Socket x 1	24b, 2CH	GbE x 2	USB 2.0 x 8	11	2	PCIe[x16] x 1, PCIe[x1] x 1, PCI x 1, Mini-Card x 1	ATX	32°F - 140°F (0°C - 60°C)