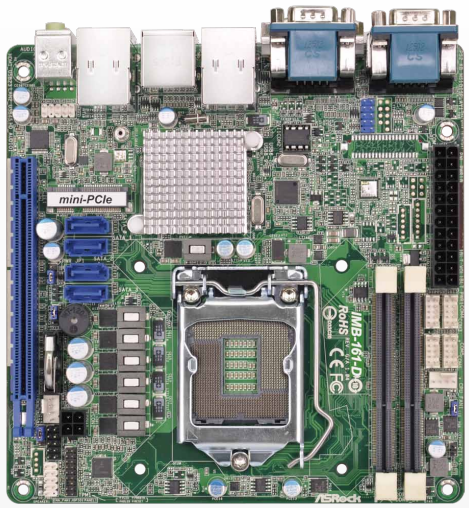



IMB-161-D

Mini-ITX Motherboard

Spotlight Features

- Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Ivy Bridge and Sandy Bridge)
- Intel® H61 Chipset
- Integrated Intel® HD Graphics Built-in Visuals
- Supports DDR3 1600MHz, 2 x SO-DIMM, up to 16GB system memory
- 2 x COM (RS-232/422/485), 4 x COM (RS-232)
- 1 x D-Sub, 1 x HDMI, 1 x Dual Channel 24-bit DisplayPort
- 8 x USB 2.0, 4 x SATA2
- 1 x PCIe x16, 1 x mini-PCIe
- Gigabit LAN : 1 x Intel 82579V, 1 x Intel 82583V
- 1 x TPM Header

Specifications

Processor System	
Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Sandy Bridge and Ivy Bridge)
Core Number	(By CPU, Max 4)
Max Speed	(By CPU)
L3 Cache	(By CPU)
Chipset	H61
BIOS	UEFI

Expansion Slot	
PCI	0
Mini-PCIe	1 (Half Size)
mSATA	0
PCIe	1 (x16) (IVY Bridge: Gen3; Sandy Bridge: Gen2)
CFast Card Socket	0

Memory	
Technology	Dual Channel DDR3 1066/1333/1600 MHz SDRAM
Max.	16GB
Socket	2 x SO-DIMM

Graphics	
Controller	Intel HD Graphics (By CPU)
VRAM	Shared Memory
VGA	No
LVDS	No
HDMI	Supports HDMI 1.4a, max resolution 1920x1200
DVI	Supports max resolution 1920x1200
Display Port	Supports max resolution 2560x1600
Multi Display	Yes (Dual Display)

Ethernet	
Interface	10/100/1000 Mbps
Controller	GbE LAN1:Intel 82583V, LAN2: Intel 82579V
Connector	RJ-45 x 2 w/ LED

SATA	
Max Data Transfer Rate	4 x SATA2 (3.0Gb/S)

Rear I/O	
VGA	0
HDMI	1
DVI-I/D	1 (DVI-I)
Display Port	1
Ethernet	2
USB	6 (USB 2.0 compliant)
Audio	2 (Mic-in, Line-out)
Serial	2 (RS-232/422/485)
PS/2	1 (Combo)

Internal Connector	
USB	2 (USB 2.0 compliant)
LVDS/Inverter	0
VGA	0
Serial	4 (RS-232)
SATA	4 x SATA2 (3.0Gb/s)
m-SATA	0
Mini-PCIe	1
Parallel	0
IrDA	0
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	0
Speaker Header	1

Watchdog Timer	
Output	Output from super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements	
Input PWR	ATX PWR (24+4 pin)
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready

Environment	
Operating Temperature	0°C – 60°C

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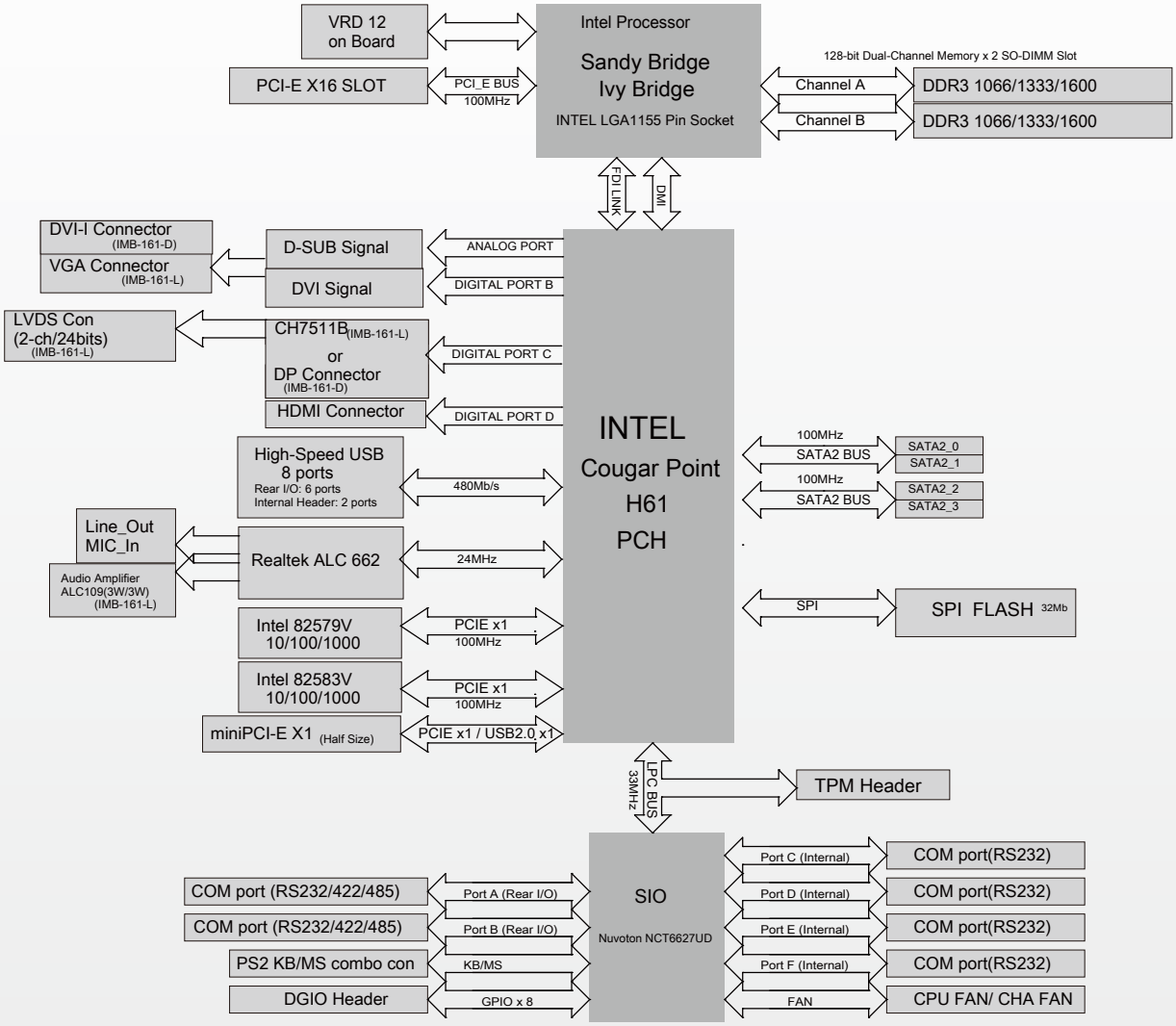
Board Diagram



IPC Motherboards Focused Markets

ASRock IMB solutions can be widely used for industrial applications, such as process control, data acquisition, and so on. IMB-PCs are typically panel mounted and often incorporate touch screens for user interaction.

KIOSK



Gaming Machine Panel PC



Retail & POS



Surveillance



Signage



Industrial Automation



Panel PC



DVR



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