

ASRock IMB-171-L Motherboard datasheet

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Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Ivy Bridge and Sandy Bridge)

Intel® Q77 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 LVDS

4 x USB 3.0, 6 x USB 2.0, 2 x SATA3, 2 x SATA2

1 x PCIe x16, 1 x mini-PCIe

Gigabit LAN : 1 x Intel 82579LM, 1 x Intel 82583V

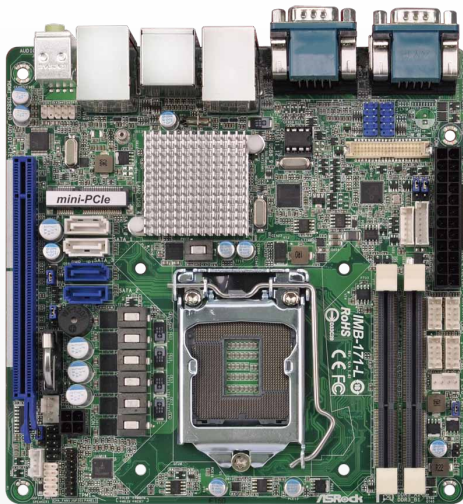
1 x TPM Header

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IMB-171-L

Mini-ITX Motherboard



Spotlight Features

- Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Ivy Bridge and Sandy Bridge)
- Intel® Q77 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 LVDS
- 4 x USB 3.0, 6 x USB 2.0, 2 x SATA3, 2 x SATA2
- 1 x PCIe x16, 1 x mini-PCIe
- Gigabit LAN : 1 x Intel 82579LM, 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	Q77
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	Supports max resolution 2048 x 1536
LVDS	Dual Channel 24-bit, support max resolution 1920x1200
HDMI	Supports HDMI 1.4a, max resolution 1920x1200
DVI	No
Display Port	No
Multi Display	Yes
Ethernet	
Interface	10/100/1000 Mbps
Controller	GbE LAN1: Intel 82583V, LAN2: Intel 82579LM
Connector	RJ-45 x 2 w/ LED
SATA	
Max Data Transfer Rate	2 x SATA2 (3.0Gb/s), 2 x SATA3 (6.0Gb/s), Supports RAID0/1/5

Rear I/O	
VGA	1
HDMI	1
DVI-I/D	0
Display Port	0
Ethernet	2
USB	6 (2 x USB 2.0 compliant, 4 x USB 3.0 compliant)
Audio	2 (Mic-in, Line-out)
Serial	2 (RS-232/422/485)
PS/2	1 (Combo)

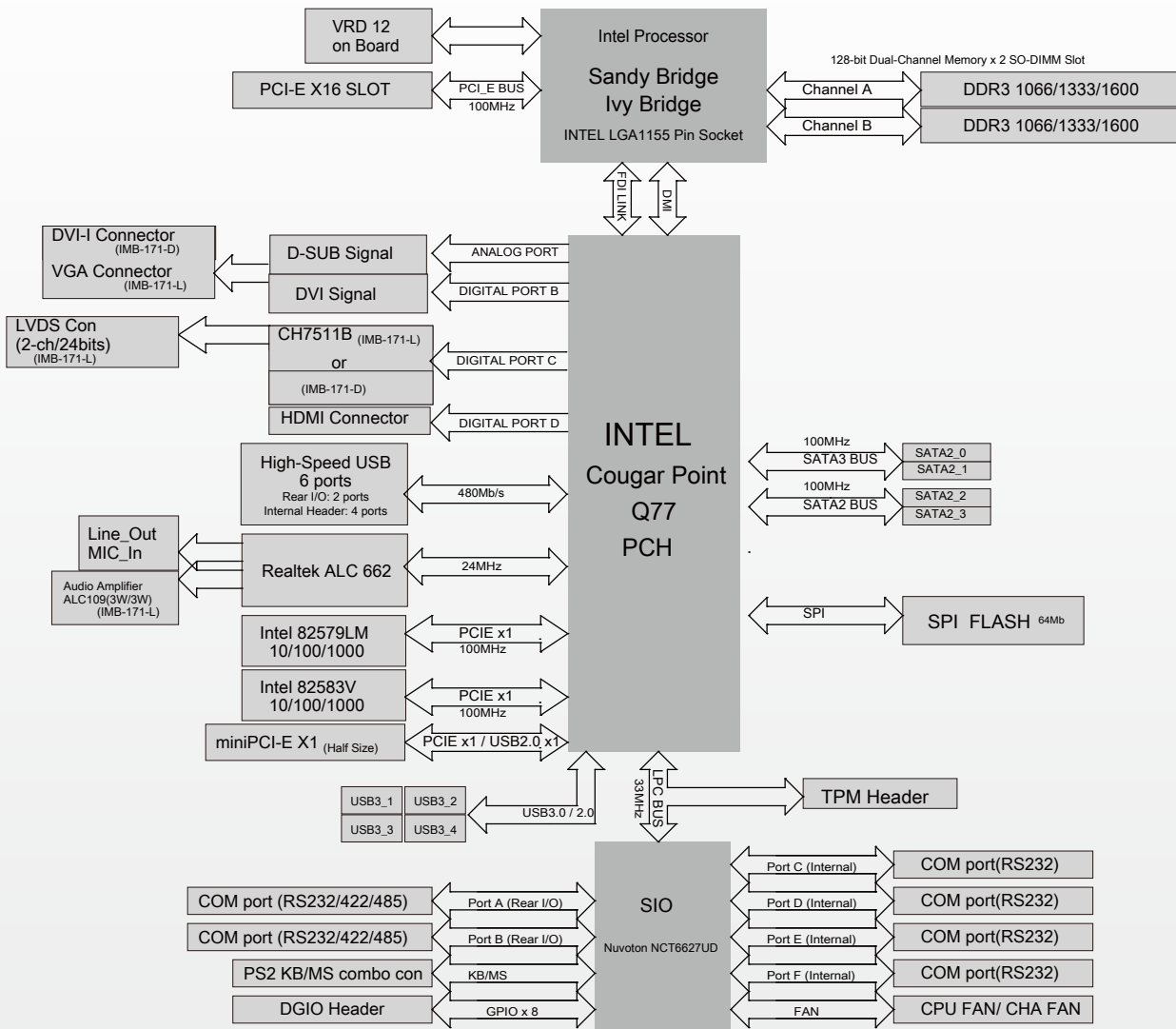
Internal Connector	
USB	4 (USB 2.0 compliant)
LVDS/Inverter	1/1
VGA	0
Serial	4 (RS-232)
SATA	2 x SATA2 (3.0Gb/s), 2 x SATA3 (6.0Gb/s), Supports RAID0/1/5
m-SATA	0
Mini-PCIe	1
Parallel	0
IrDA	0
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	0
Speaker Header	1

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

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.

