ASRock®

IMB-170
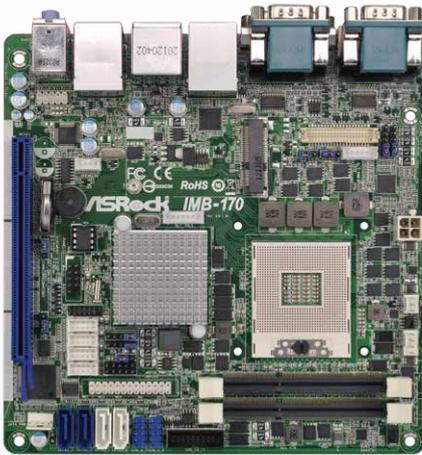## Mini-ITX Motherboard

Spotlight Features

- Socket G2 (rPGA988B) for Intel Core i7/i5/i3/Celeron (Ivy Bridge and Sandy Bridge)
- Intel® QM77 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 DVI-I, 1 x HDMI, 1 x DisplayPort, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.0, 8 x USB 2.0, 2 x SATA3, 2 x SATA2
- 1 x PCIe 2.0 x16, 1 x mini-PCIe
- Gigabit LAN : 1 x Intel 82579LM, 1 x Intel 82583V

Specifications

Processor System

Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Socket G2 (rPGA988B) 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	QM77
BIOS	UEFI

Expansion Slot

PCI	N/A
Mini-PCIe	1 x full size with PCIe x1 and USB2.0
mSATA	N/A
PCIe	1 (IVY Bridge: Gen3; Sandy Bridge: Gen2)
CFast Card Socket	N/A

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	Dual channel 24-bit, max resolution 1920 x 1200@60Hz
HDMI	Supports HDMI 1.4a, max resolution 1920 x 1200
DVI	Supports max resolution 1920x1200
Display Port	Supports max resolution 2560 x 1600
Multi Display	Yes

Ethernet

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

SATA

Max Data Transfer Rate	2 x SATA2 (3.0Gb/s), 2 x SATA3 (6.0Gb/s), Supports RAID 0/1/5/10

Rear I/O

VGA	0
HDMI	1
DVI-I/D	1 (DVI-I)
Display Port	1
Ethernet	2
USB	6 (4 x USB 2.0 compliant, 2 x USB 3.0 compliant)
Audio	3 (Mic-in, Line-out, Line-in)
Serial	2 (RS-232/422/485)
PS/2	1 (Combo)

Internal Connector

USB	6 (4 x USB 2.0 compliant, 2 x USB 3.0 compliant)
LVDS/Inverter	1/1
VGA	0
Serial	4 (RS-232)
SATA	2 x SATA2 (3.0Gb/s) + 2 x SATA3 (6.0Gb/s), Support RAID 0/1/5/10
m-SATA	0
Mini-PCIe	1
Parallel	1
IrDA	0
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	1
Speaker Header	1

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements

Input PWR	12V DC-In (4-pin ATX PWR Con)
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	0ºC – 60ºC