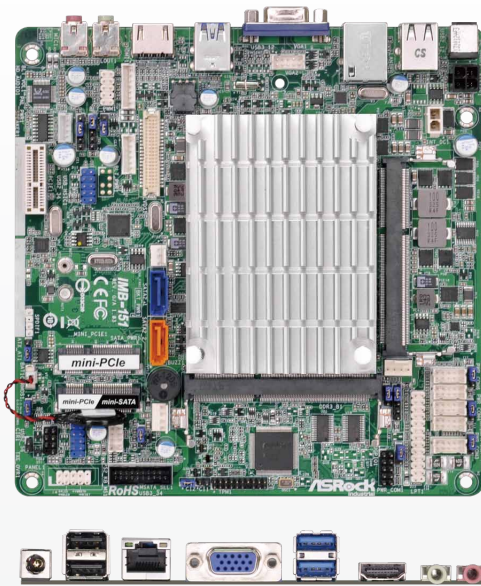


# IMB-151

## Mini-ITX Motherboard



### Spotlight Features

- Intel® Atom™ Baytrail-M/D Processor
- Integrated Intel® Gen7 Intel Graphics DX 11, OGL3.2
- Supports Dual Channel DDR3 1333MHz, 2 x SO-DIMM, up to 8GB system memory
- 1 x COM (RS-232/422/485), 4 x COM (RS-232)
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 4 xUSB 3.0, 6 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe, 1x mSATA (shared)
- Gigabit LAN : 1 x Realtek Lan
- 9~19 V DC-in

### Specifications

Processor System	
Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Atom™ Baytrail-M/D Processor Supports Hyper-Threading Technology
Core Number	4
Max Speed	(By CPU)
L3 Cache	2MB
Chipset	N/A
BIOS	UEFI
Expansion Slot	
PCI	0
Mini-PCIe	1 (half size) + 1 (full size) shared
mSATA	1
PCIe	1
CFast Card Socket	0
Memory	
Technology	Dual Channel DDR3 1333 MHz SDRAM
Max.	8GB
Socket	2 x SO-DIMM
Graphics	
Controller	Intel® Gen7 Intel Graphics DX 11 <sup>+</sup> , OGL3.2
VRAM	share Memory
VGA	Supports max. resolution 1920 x 1200
LVDS	Dual channel 24-bit, max resolution 1920 x 1200@60Hz
HDMI	Supports HDMI 1.3a, max resolution 1920x1200
DVI	no
Display Port	no
Multi Display	Yes (Dual Display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	GbE LAN Realtek
Connector	1 x RJ 45
SATA	
Max Data Transfer Rate	SATA2 (3.0Gb/s)

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

Internal Connector	
USB	6 (2 x USB 3.0 compliant, 4 x USB 2.0 compliant)
LVDS/Inverter	1/1
VGA	1 (shared with rear I/O VGA COM)
Serial	5 ( 1 RS-232/422/485, 4 RS-232)
SATA	2 x SATA2 ( 3.0Gb/s)
m-SATA	1 (shared)
Mini-PCIe	1
Parallel	1
IrDA	0
GPIO	4in / 4 out
SATA PWR Output Con	1
Speaker Header	1

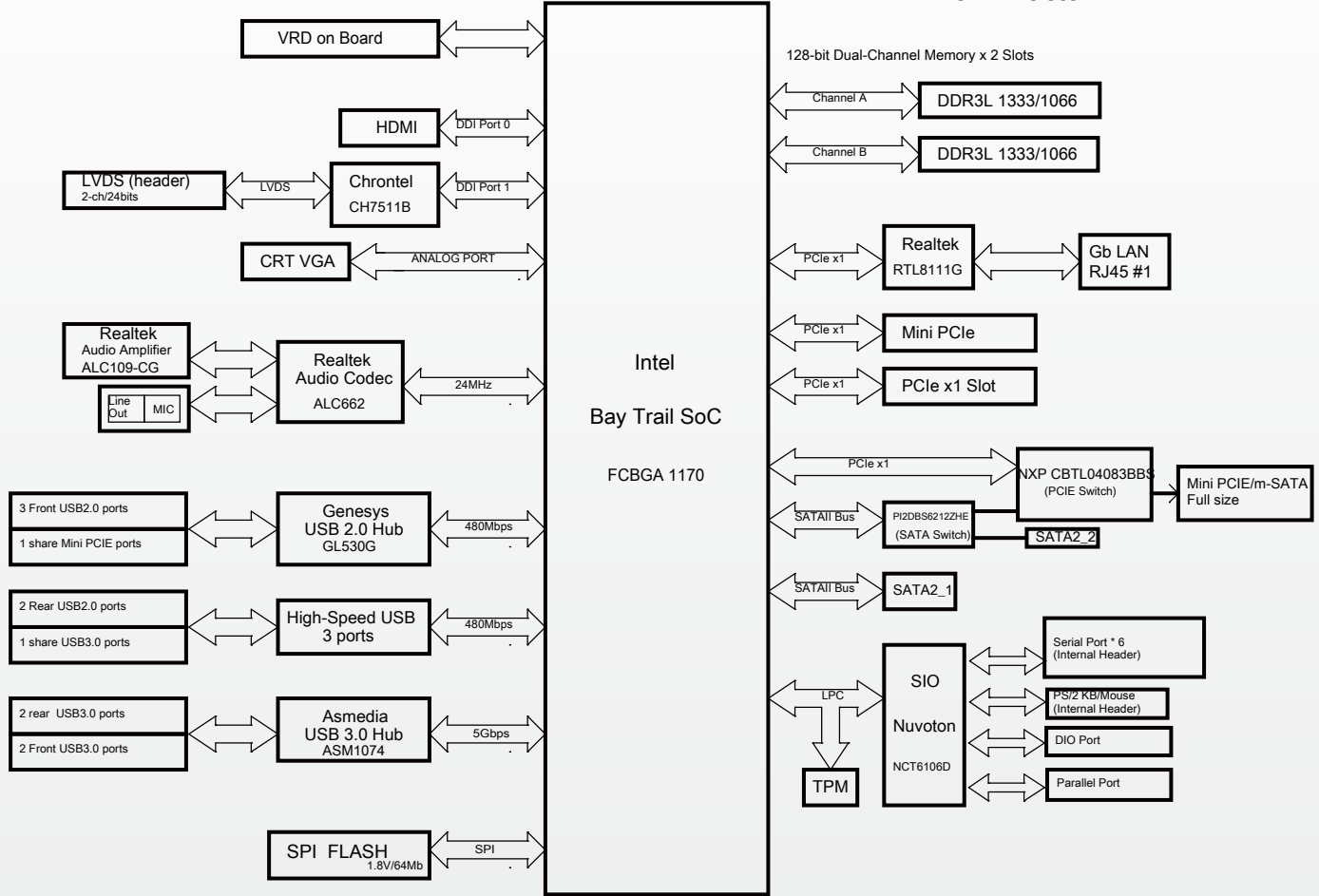
Watchdog Timer	
Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements	
Input PWR	9~19V DC-In (2-pin 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	0°C – 60°C

## Board Diagram

### IMB-151 R1.00



## 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.

