



# IMB-391

Micro ATX Motherboard

## Spotlight Features

- Supports Intel® 7<sup>th</sup>/ 6<sup>th</sup> Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
- Supports Dual Channel DDR4 2133MHz, up to 32GB
- 1 x VGA, 2 x HDMI, 1 x Displayport, 1 x DVI
- 4 x USB 3.0, 4 x USB 2.0, 4 x SATA3
- 1 x PCIe x16, 2 x PCI, 1 x PCIe x4
- 2 x Intel LAN
- 1 x TPM Header
- ATX PWR Con (24+8-pin)

## Specifications

### Processor System

Dimensions	Micro ATX (9.6-in x 9.6-in)
CPU	Supports Intel® 7 <sup>th</sup> / 6 <sup>th</sup> Gen (Kabylake-S/Skylake-S) Core™ Processors
Chipset	Intel® H110

### Expansion Slot

PCIe	1 x PCIe x16, 2 x PCI, 1 x PCIe x4
Mini-PCIe	N/A
M.2	N/A
mSATA	N/A

### Memory

Technology	Dual Channel DDR4 2133MHz
Max	32GB
Socket	2 x Long-DIMM

### Graphics

Controller	Intel® Gen9 Graphics DX 11/12, OGL4.3/4.4
VGA	Supports max resolution up to 1920 x 1200
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	N/A
HDMI	Supports max resolution up to 4096 x 2160@60Hz
DVI	Supports max resolution up to 1920 x 1200@60Hz
DisplayPort	Supports max resolution up to 4096 x 2160@60Hz
Multi Display	Dual Display

### Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel I219V, 1 x Intel I210

### Environment

Operating Temperature	0°C – 60°C
Storage Temperature	-40°C – 85° C

### Rear I/O

VGA	1
DVI	1
HDMI	1
DisplayPort	1
Ethernet	2
USB	4 x USB 3.0
Audio Jack	3 (Mic-in, Line-in, Line-out)
Serial	1 x COM (RS-232/422/485)
PS/2	1 x PS/2 combo

### Internal Connector

USB	4 x USB 2.0
LVDS	1
eDP	N/A
VGA	N/A
Serial	3 x COM (RS-232)
SATA	4 x SATA3
Parallel	1 (shared with GPIO)
GPIO	8 x GPI + 8 x GPO
SATA PWR Output Con	N/A
Speaker Header	1
TPM	1 x Header

### Watchdog Timer

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

### Power Requirements

Input PWR	ATX PWR Con (24+8-pin)
Power On	AT/ATX Supported AT : Directly PWR on as power input ready ATX : Press button to PWR on after power input ready

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