



IMB-391

Micro ATX Motherboard

Spotlight Features

- Socket LGA1151 for Intel® Core i7/i5/i3/Celeron (Skylake-S)
- Intel® Gen9 Intel® Graphics DX 11/12, OGL4.3/4.4
- Supports Dual Channel DDR4 2133MHz, 2 x Long-DIMM, up to 16GB system memory
- 1 x VGA, 2 x HDMI, 1 x Displayport, 1 x DVI
- 4 xUSB 3.0, 4 x USB 2.0, 4 x SATA3
- 1 x PCIe x16, 2 x PCI, 1 x PCIe x4 Slot
- Gigabit LAN : 2 x Intel LAN
- 1 x TPM Header
- ATX PWR Con (24+8-pin)

Specifications

Processor System

Dimension	Micro ATX (9.6-in x 9.6-in)
CPU	Socket LGA1151 for Intel® Core i7/i5/i3/Celeron(Skylake-S)
Core Number	(By CPU, Max 4)
Max Speed	(By CPU)
L2 Cache	(By CPU)
Chipset	Intel® H110
BIOS	UEFI

Expansion Slot

PCIe	1 x PCIe x16, 2 x PCI, 1 x PCIe x4 slot
Mini PCIe	0
M.2	0
mSATA	0

Memory

Technology	Dual Channel DDR4 2133MHz
Max.	16GB
Socket	2 x Long-DIMM

Graphics

Controller	Intel® Gen9 Graphics DX 11/12, OGL4.3/4.4
VRAM	Shared Memory
VGA	Supports max resolution up to 1920 x 1200
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	No
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	Yes (Dual Display)

Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel I219V, 1 x Intel I210
Connector	2 x RJ45

SATA

Max Data Transfer Rate	SATA3 (6.0Gb/s)
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Rear I/O

VGA	1
DVI	1
HDMI	1
DisplayPort	1
Ethernet	2
USB	4 x USB 3.0
Audio	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 (2 x 2.54 pitch header)
LVDS/inverter	1/1
eDP	0
VGA	0
Serial	3 x COM (supports RS-232 only)
SATA	4
mPCIe	0
Parallel	1 (shared with GPIO)
mSATA	0
IrDA	0
GPIO	8 x GPI + 8 x GPO
SATA PWR Output Con	0
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	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

Environment

Operating Temperature	0°C – 60°C
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