

# IMB-790

## 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, 4 x Long-DIMM, up to 64GB system memory
- 1 x VGA, 3 x Displayport
- 6 x USB 3.0, 6 x USB 2.0, 6 x SATA3
- 1 x Mini-PCIe, 1 x PCIe x16, 1 x PCIe, 1 x PCIe x8, 3 x PCI,
- 1 x PCIe x4 Slot , 1 x mSATA
- Gigabit LAN : 2 x Intel LAN
- 1 x TPM Header
- ATX PWR Con (24+8-pin)

### Specifications

Processor System	
Dimension	ATX (12-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® Q170
BIOS	UEFI
Expansion Slot	
PCIe	1 x PCIe x16, 1 x PCIe x1, 1 x PCIe x8, 3 x PCI, 1 x PCIe x4 slot (PCIe x8 shared PCIe x16)
Mini PCIe	1 (half/full size, supports PCIe x1 and USB device)
M.2	1
mSATA	1 (full size, shared SATA and USB device)
Memory	
Technology	Dual Channel DDR4 2133MHz
Max.	64GB
Socket	4 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	No
eDP	No
HDMI	No
DVI	No
DisplayPort	Supports max resolution up to 4096 x 2160@60Hz
Multi Display	Yes (Triple Display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Intel I210, 1 x Intel I219LM
Connector	2 x RJ45
SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/s)

Rear I/O	
VGA	1
DVI	0
HDMI	0
DisplayPort	3
Ethernet	2
USB	4 x USB 3.0
Audio	3 (Mic-in, Line-in, Line-out)
Serial	2 x COM (RS-232/422/485)
PS/2	1 x PS/2 combo

Internal Connector	
USB	2 x USB 3.0 (1 x USB3.0 header) 6 x USB 2.0 (2 x 2.54 pitch header, 2 x USB2.0 Type-A vertical con)
LVDS/inverter	0/0
eDP	0
VGA	0
Serial	4 x COM (supports RS-232 only)
SATA	6 (one shared with mSATA)
mPCIe	1
Parallel	1
mSATA	1
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