



IMB-390-L / IMB-390-D

Micro ATX Motherboard

Spotlight Features

- Supports Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
- Supports Dual Channel DDR4 2133MHz, up to 64GB
- 1 x VGA, 1 x HDMI, 1 x Displayport, 1 x DVI (IMB-390-L)
1 x HDMI, 1 x Displayport, 1 x DVI (IMB-390-D)
- 6 x USB 3.0, 6 x USB 2.0, 6 x SATA3
- 1 x Mini-PCIe, 1 x PCIe x16, 2 x PCI, 1 x PCIe x4,
- 1 x mSATA
- 2 x Intel LAN
- 1 x TPM 2.0 IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR Con (24+8-pin)

Specifications

Processor System	IMB-390-L	IMB-390-D
Dimensions	Micro ATX (9.6-in x 9.6-in)	
CPU	Supports Intel® 7 th / 6 th Gen (Kabylake-S/Skylake-S) Core™ Processors	
Chipset	Intel® Q170	

Expansion Slot	
PCIe	1 x PCIe x16, 2 x PCI, 1 x PCIe x4
Mini-PCIe	1 x half/full size (supports PCIe x1 and USB device)
M.2	N/A
mSATA	1 x full size (supports SATA and USB device)

Memory	
Technology	Dual Channel DDR4 2133
Max	64GB
Socket	4 x Long-DIMM

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

Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Intel I219LM, 1 x Intel I210

Rear I/O	IMB-390-L	IMB-390-D
VGA	1	N/A
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	2 x USB 3.0, 6 x USB 2.0 N/A
LVDS	1
eDP	N/A
VGA	N/A
Serial	5 x COM (RS-232)
SATA	6 x SATA3 (one shared with mSATA)
RAID	Intel® SATA RAID 0/1/5/10
Parallel	1 (shared with GPIO)
GPIO	8 x GPI + 8 x GPO
SATA PWR Output Con	N/A
Speaker Header	1
TPM	1 x Onboard TPM 2.0 IC

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
Storage Temperature	-40°C – 85°C