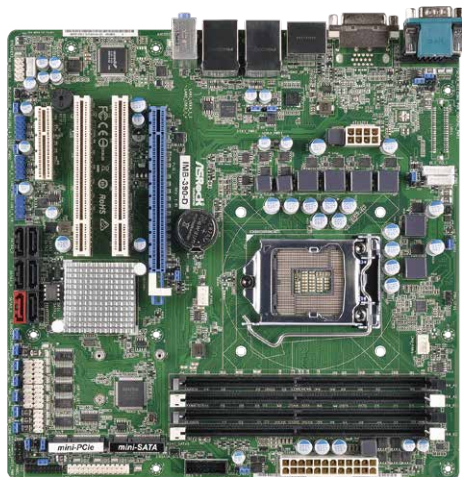


IMB-390-L/IMB-390-D

Micro ATX Motherboard

KEY FEATURES

- Intel® 7th/ 6th Gen (Kabylake-S/Skyake-S) Core™ Processors with Q170 chipset
- 4 x 288-pin Long-DIMM up to 64GB DDR4 2133 MHz (16GB per DIMM)
- 1 x PCIe x16 (Gen3), 1 x PCIe x4 (Gen3), 2 x PCI, 6 x USB 3.1 Gen1, 6 x USB 2.0, 1 x mini-PCIe, 1 x mSATA, 6 x COM, 6 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports triple display, 1 x HDMI 2.0, 1 x DP 1.2a, 1 x VGA, 1 x LVDS, 1 x DVI-D (IMB-390-L)
- Supports triple display, 1 x HDMI 2.0, 1 x DP 1.2a, 1 x eDP, 1 x DVI-D (IMB-390-D)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR



IMB-390-L

IMB-390-D

SPECIFICATIONS

Form Factor	IMB-390-L	IMB-390-D
Dimensions	Micro ATX (9.6-in x 9.6-in)	
Processor System		
CPU	Intel® 7 th / 6 th Gen (Kabylake-S/Skyake-S) Core™ Processors, up to 65W	
Chipset	Intel® Q170	
Socket	LGA1151	
BIOS	AMI SPI 128 Mbit	

Memory		
Technology	Dual Channel DDR4 2133 MHz	
Capacity	64GB (16GB per DIMM)	
Socket	4 x 288-pin Long-DIMM	

Graphics		
Controller	Intel® Gen9 Graphics DX 11/12	
HDMI	HDMI 2.0 Max resolution up to 4096x2160@60Hz	
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096x2304@60Hz	
VGA	Max resolution up to 1920x1200@60Hz	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz	N/A
eDP	N/A	eDP 1.4 Max resolution up to 4096x2304@60Hz
DVI	DVI-D Max resolution up to 1920x1200@60Hz	
MultiDisplay	Triple Display	

Expansion Slot		
PCIe	1 x PCIe x16 Gen3, 1 x PCIe x4 (Gen3)	
PCI	2	
mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0	
M.2	N/A	

Audio		
Interface	Realtek ALC887, High Definition Audio. Line-out, Mic-in, Line-in	

Ethernet		
Controller/ Speed	LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro	
Connector	2 x RJ-45	

Rear I/O	IMB-390-L	IMB-390-D
HDMI	1 x HDMI 2.0	
DisplayPort	1 x DP 1.2a	
VGA	1	N/A
DVI	1 x DVI-D	
Ethernet	2 x 1 Gigabit LAN	
USB	4 x USB 3.1 (Gen1)	
Audio	3 (Mic-in, Line-in, Line-out)	
COM	COM1(RS-232/422/485)	
PS2	1 x PS/2 combo	

Internal Connector		
USB	2 x USB 3.1 (Gen1) (1 x USB 3.0 header) 6 x USB 2.0 (3 x 2.54 pitch header)	
COM	COM2,3,4,5,6 (RS-232)	
Parallel	1 (shared with GPIO)	
GPIO	8 x GPI, 8 x GPO (shared with LPT header)	
TPM	TPM 2.0 onboard IC	
LVDS	1	N/A
eDP	N/A	1
VGA	N/A	
SATA PWR Output	N/A	
Speaker Header	1	

Storage		
M.2	N/A	
mSATA	1 x Full size with shared SATA3 and USB 2.0	
SATA	6 x SATA3, SATA3_6 shared with mSATA	
RAID	Intel® SATA RAID 0/1/5/10	

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

Power Requirements		
Input PWR	ATX PWR (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 Temp	0°C ~ 60°C	
Storage Temp	-40° C ~ 85° C	
Operating Humidity	5% ~ 90%	
Storage Humidity	5% ~ 90%	