



IMB-390-L



IMB-390-D

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

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660