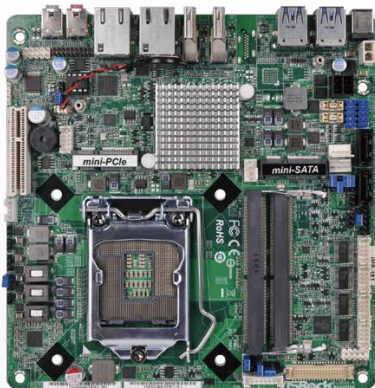


IMB-191 / IMB-193

Mini-ITX Motherboard

Spotlight Features

- Supports Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
- Supports Dual Channel DDR4 SO-DIMM 2133, up to 32GB
- 2 x HDMI, 1 x LVDS (IMB-191)
- 2 x HDMI, 1 x DisplayPort, 1 x eDP (IMB-193)
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3, 4 x COM
- 1 x Mini-PCle, 1 x PCIe x4 Slot, 1 x mSATA
- 2 x Intel® LAN (IMB-191)
- 1 x Intel LAN, 1 x Realtek LAN (IMB-193)
- 1 x TPM Header
- 12V / 19~24V DC-in (IMB-191)
- 19V DC-in (IMB-193)

Specifications

Processor System	IMB-191	IMB-193
Dimensions	Mini-ITX (6.7-in x 6.7-in)	
CPU	Supports Intel® 7 th / 6 th Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)	
Chipset	Intel® H110	

Expansion Slot	
PCIe	1 x PCIe x4
Mini-PCle	1 x half size (Supports PCIe x1 & USB device)
M.2	N/A
mSATA	1 x full size (shared SATA and USB device)

Memory	
Technology	Dual Channel DDR4 2133MHz
Max	32GB
Socket	2 x SO-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 Dual channel 24-bit co-lay with eDP, max resolution up to 1920 x 1200@60Hz	N/A
eDP	N/A	Supports Max. resolution 4096 x 2160@60Hz
HDMI	Supports max resolution up to 4096 x 2160 @30Hz	
DVI	N/A	
DisplayPort	N/A	Supports max resolution up to 4096 x 2160@60Hz
Multi Display	Dual Display	

Ethernet		
Interface	10/100/1000 Mbps	
Controller	1 x Intel® I210 1 x Intel® I219V	1 x Intel® I219v 1 x Realtek RTL8111G

Rear I/O	IMB-191	IMB-193
VGA	N/A	
DVI	N/A	
HDMI	2	
DisplayPort	N/A	1
Ethernet	2	
USB	4 x USB 3.0	
Audio Jack	2 (Mic-in, Line-out)	
Serial	N/A	
PS/2	N/A	

Internal Connector		
USB	4 x USB 2.0	
LVDS	1	N/A
eDP	N/A	1
VGA	1	N/A
Serial	2 x COM (RS-232, 2 x RS-232/422/485)	3 x COM (RS-232, 1 x COM (RS-232/422/485)
SATA	2 x SATA3	
Parallel	N/A	
GPIO	4 x GPI + 4 x GPO	
SATA PWR Output Con	1	
Speaker Header	1	
TPM	1 x Header	

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

Power Requirements		
Input PWR	12V / 19~24V DC-in (DC Jack / 4-pin ATX PWR Con)	19V DC-in (DC Jack / 4-pin ATX PWR Con)
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

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