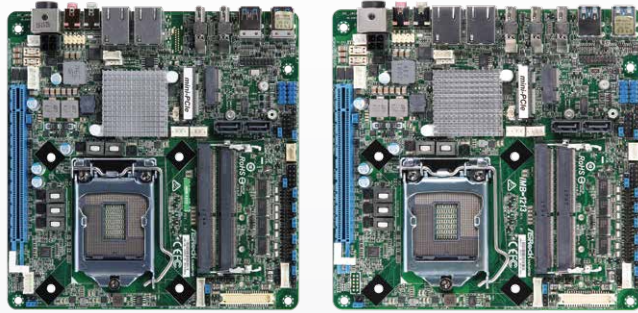




Preliminary

IMB-1212/-1213

Mini-ITX Motherboard



Spotlight Features

- Socket LGA 1151 for Intel Core i7/i5/i3/Celeron
- Supports Dual Channel DDR4 SO DIMM 2400/2666, up to 32GB
- 2 x Displayport, 1 x VGA, 1 x eDP, 1 x Dual Channel 24-bit LVDS (IMB-1212)
- 3 x Displayport, 1 x eDP, 1 x Dual Channel 24-bit LVDS (IMB-1213)
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3, 4 x COM (IMB-1212)
- 4 x USB 3.1 Gen2, 4 x USB 2.0, 2 x SATA3, 4 x COM (IMB-1213)
- 1 x PCIe x16, 1 x mini-PCIe, 1 x M.2 Key E, 1 x M.2 Key M
- 2 x Intel LAN
- 1 x TPM Header(IMB-1212)
- 1 x TPM 2.0 IC (IMB-1213)
- 12V/19~28V 4-pin DC-in
- Supports RAID function(IMB-1213)



IMB-1212



IMB-1213

Specifications

Processor System	IMB-1212	IMB-1213
Dimensions	Mini-ITX (6.7-in x 6.7-in)	
CPU	Socket LGA 1151 for Intel Core i7/i5/i3/Celeron	
Chipset	Intel® H310	Intel® Q370

Expansion Slot	IMB-1212	IMB-1213
PCIe	1 x PCIe x16	1 x PCIe x16 (Support riser card)
Mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0	
M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVi and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with SATA3 for SSD	1x M.2 (Key E, 2230) with PCIe x1, CNVi and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD
mSATA	N/A	

Memory	IMB-1212	IMB-1213
Technology	Dual Channel DDR4 2400/2666MHz	
Max	32GB	
Socket	2 x SO-DIMM	

Graphics	IMB-1212	IMB-1213
VGA	Supports max resolution up to 1920x1200@60Hz	N/A
DVI	N/A	
LVDS	Dual Channel 24-bit, max resolution up to 1920x1200@60Hz	
eDP	Max resolution up to 4096x2304@60Hz	
HDMI	N/A	
DisplayPort	Max resolution up to 4096x2304@60Hz	
Multi Display	Dual Display	Triple Display

Ethernet	IMB-1212	IMB-1213
Interface	10/100/1000 Mbps	
Controller	1 x Intel I210, 1 x Intel I219V	1 x Intel I210, 1 x Intel I219LM

Rear I/O	IMB-1212	IMB-1213
VGA	N/A	
DVI	N/A	
HDMI	N/A	
DisplayPort	2	3
Ethernet	2	
USB	4 x USB 3.0	4 x USB 3.1 Gen2 (10Gb/s)
Serial	N/A	
Audio Jack	2 (Mic-in, Line-out)	
PS/2	N/A	

Internal Connector	IMB-1212	IMB-1213
USB	4 x USB2.0	
LVDS	1 (shared with eDP use jumper switch)	
eDP	1	
VGA	1	N/A
Serial	2 x COM (RS-232/422/485), 2 x COM(RS-232)	
SATA	2 x SATA3 (6.0Gb/s)	
GPIO	4 x GPI, 4 x GPO	
SATA PWR Output Con	1	
Speaker Header	1	
TPM	1 x Header	1 x Onboard TPM 2.0 IC

Watchdog Timer	IMB-1212	IMB-1213
Output	From Super I/O to drag RESETCON#	
Interval	256 segments, 0,1,2...255sec/min	

Power Requirements	IMB-1212	IMB-1213
Input PWR	12V/19~28V 4-pin DC-in	
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready	

Environment	IMB-1212	IMB-1213
Operating Temperature	0°C – 60°C	
Storage Temperature	-40°C – 85°C	