

IMB-198 / IMB-199

Mini-ITX Motherboard



Spotlight Features

- Intel® 7th/ 6th Gen (KabyLake-U/Skylake-U) Core™ MCP Processors
 - IMB-198P (i7-6600U)
 - IMB-198M (i5-6300U)
 - IMB-199V (i3-6100U)
- Supports Dual Channel DDR4 SO-DIMM 2133, up to 32GB
- 1 x VGA, 1 x HDMI, 1 x DisplayPort, 1 x eDP, 6 x COM
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x Mini-PCIe, 1 x mSATA
- 1 x M.2 (Key E)
- 1 x Intel® LAN, 1 x Realtek LAN
- 1 x TPM Header
- +12V or +19V~+24V DC-In

Specifications

Form Factor	IMB-198	IMB-199
Dimensions	Mini-ITX (6.7-in x 6.7-in)	

Processor System		
CPU	Intel® 7 th / 6 th Gen (KabyLake-U/Skylake-U) Core™ MCP Processors	
	- IMB-198P (i7-6600U, DC, 2.40 GHz, 15W) - IMB-198M (i5-6300U, DC, 2.40 GHz, 15W)	- IMB-199V (i3-6100U, DC, 2.30 GHz, 15W)
Chipset	N/A	

Expansion Slot	
PCIe	N/A
Mini-PCIe	1 x full/half size with PCIe x1 and USB2.0
M.2	1 x M.2 (KEY E, 2230) with PCIe x1 and USB2.0 for Wireless
mSATA	1 x full size with SATA3

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@60Hz
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	Supports max resolution up to 4096 x 2160@60Hz
HDMI	Supports max resolution up to 4096 x 2160@60Hz
DVI	N/A
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(vPro)	1 x Intel® I219V
	1 x Realtek RTL8111G	1 x Realtek RTL8111G

Rear I/O	IMB-198	IMB-199
VGA	N/A	
DVI	N/A	
HDMI	1	
DisplayPort	1 (D Sku)	
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
eDP	1
VGA	1 (V Sku)
Serial	2 x COM (RS-232/422/485), 4 x COM(RS-232)
SATA	2 x SATA3(6.0 Gb/s)
Parallel	1
GPIO	8 x GPI + 8 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 or +19V~+24V 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	
Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C