



IMB-194-L / IMB-194-D

Mini-ITX Motherboard

Spotlight Features

- Socket LGA1151 for Intel® Core i7/i5/i3/Celeron (Skylake-S)
- Intel® Gen9 Intel® Graphics DX 11/12, OGL4.3/4.4
- Supports Dual Channel DDR4 2133MHz, 2 x SO-DIMM, up to 32GB system memory
- 1 x VGA, 2 x Displayport, 1 x eDP (IMB-194-L) / 3 x Displayport, 1 x eDP (IMB-194-D)
- 4 x USB 3.0, 4 x USB 2.0, 4 x SATA3
- 1 x Mini-PCIe, 1 x PCIe x4 Slot, 1 x mSATA
- Gigabit LAN : 2 x Intel LAN
- 1 x TPM
- ATX PWR Con (24+4-pin)

Processor System	IMB-194-L	IMB-194-D
Dimension	Mini-ITX (6.7-in x 6.7-in)	
CPU	Socket LGA1151 for Intel® Core i7/i5/i3/Celeron(Skylake-S)	
Core Number	(By CPU, Max 4)	
Max Speed	(By CPU)	
L2 Cache	(By CPU)	
Chipset	Intel® Q170	
BIOS	UEFI	

Expansion Slot	
PCIe	1 x PCIe x16 slot
Mini PCIe	1 (half/full size, supports PCIe x1 and USB device)
M.2	0
mSATA	1 (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
VRAM	Shared Memory
VGA	Supports Max resolution up to 1920 x 1200
LVDS	Supports Max resolution up to 1920 x 1200@60Hz
eDP	Supports Max resolution up to 4096 x 2160@60Hz
HDMI	No
DVI	No
DisplayPort	Supports Max resolution up to 4096 x 2160@60Hz
Multi Display	Yes (Triple Display)

Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Intel® I219LM, 1 x Intel® I210
Connector	2 x RJ45

SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/s)

Rear I/O	IMB-194-L	IMB-194-D
VGA	1	0
DVI	0	
HDMI	0	
DisplayPort	2	3
Ethernet	2	
USB	4 x USB 3.0	
Audio	2 (Mic-in, Line-out)	
Serial	2 x COM (RS-232/422/485)	
PS/2	0	

Internal Connector		
USB	4 x USB 2.0 (2 x 2.54 pitch header)	
LVDS/inverter	1/1	0/0
eDP	1 (optional)	
VGA	0	
Serial	3 x COM (Supports RS-232 only)	
SATA	4	
mPCIe	1	
Parallel	0	
mSATA	1	
IrDA	0	
GPIO	4 x GPI + 4 x GPO	
SATA PWR Output Con	0	
Speaker Header	1	

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+4-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