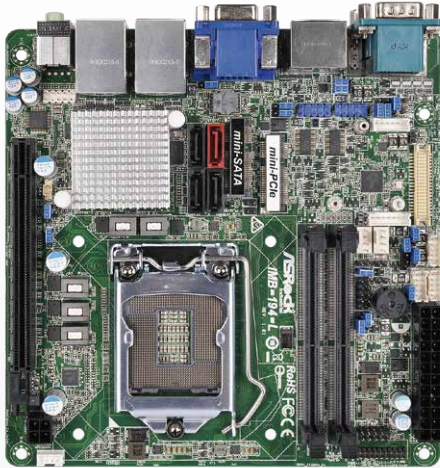


# IMB-194-L / IMB-194-D

## Mini-ITX Motherboard

### Spotlight Features

- Supports Intel® 7<sup>th</sup>/ 6<sup>th</sup> Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
- Supports Dual Channel DDR4 SO-DIMM 2133, up to 32GB
- 1 x VGA, 1 x HDMI, 1 x Displayport, 1 x LVDS (IMB-194-L)
- 1 x HDMI, 2 x Displayport, 1 x eDP (IMB-194-D)
- 4 x USB 3.0, 4 x USB 2.0, 4 x SATA3, 5 x COM
- 1 x Mini-PCIe, 1 x PCIe x16 Slot, 1 x mSATA
- 2 x Intel® LAN,
- 1 x TPM 2.0 IC onboard
- ATX PWR Con (24+4-pin)



### Specifications

Processor System	IMB-194-L	IMB-194-D
Dimensions	Mini-ITX (6.7-in x 6.7-in)	
CPU	Supports Intel® 7 <sup>th</sup> / 6 <sup>th</sup> Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)	
Chipset	Intel® Q170	

Expansion Slot	
PCIe	1 x PCIe x16
Mini-PCIe	1 x full/half size with PCIe x1 and USB2.0
M.2	N/A
mSATA	1 x full size with SATA3 (shared) and USB2.0

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
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 @24Hz
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, 1 x Intel I210

Rear I/O	IMB-194-L	IMB-194-D
VGA	1	N/A
DVI	N/A	
HDMI	1	
DisplayPort	1	2
Ethernet	2	
USB	4 x USB 3.0	
Audio	2 (Mic-in, Line-out)	
Serial	2 x COM (RS232/422/485)	
PS/2	N/A	

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

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
Storage Temperature	-40°C – 85°C