



ASRock
— Industrial —



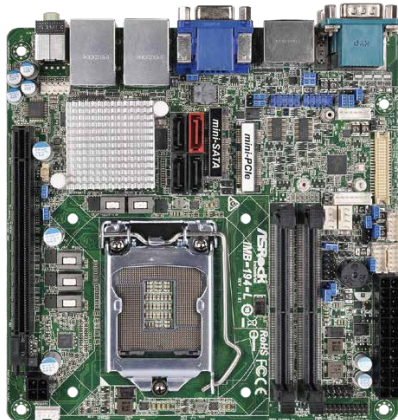
IoT Solutions
Alliance

IMB-194-L/IMB-194-D

Mini-ITX Motherboard

KEY FEATURES

- Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors with Q170 chipset
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2133 MHz (16GB per DIMM)
- 1 x PCIe x16 (Gen3), 4 x USB 3.1 Gen1, 4 x USB 2.0, 1 x mini-PCIe, 1 x mSATA, 5 x COM, 4 x SATA3
- 2 x Intel Gigabit LAN
- Supports triple display, 1 x HDMI 1.4b, 1 x DP 1.2a, 1 x VGA, 1 x LVDS (IMB-194-L)
- Supports triple display, 1 x HDMI 1.4b, 2 x DP 1.2a, 1 x eDP (IMB-194-D)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR



IMB-194-L



IMB-194-D

SPECIFICATIONS

Form Factor	IMB-194-L	IMB-194-D
Dimensions	Mini-ITX (6.7-in x 6.7-in)	

Processor System

CPU	Intel® 7 th / 6 th Gen (Kabylake-S/Skylake-S) Core™ Processors	
Chipset	Intel® Q170	
Socket	LGA1151	
BIOS	AMI SPI 128 Mbit	

Memory

Technology	Dual Channel DDR4 2133 MHz	
Capacity	32 GB (16 GB per DIMM)	
Socket	2 x 260-pin SO-DIMM	

Graphics

Controller	Intel® Gen9 Graphics DX 11/12	
HDMI	HDMI 1.4b Max resolution up to 4096x2160@24Hz	
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096x2304@60Hz	
VGA	Max resolution up to 1920x1200@60Hz	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz	N/A
eDP	N/A	eDP 1.3 Max resolution up to 4096x2304@60Hz
DVI	N/A	
MultiDisplay	Triple Display	

Expansion Slot

PCIe	1 x PCIe x16 (Gen3)
PCI	N/A
mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0
M.2	N/A

Audio

Interface	Realtek ALC887/897, High Definition Audio. Line-out, Mic-in
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Ethernet

Controller/ Speed	LAN1: 1 x Intel® I210AT with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000Mbps, support AMT/vPro
Connector	2 x RJ-45

Rear I/O	IMB-194-L	IMB-194-D
HDMI	1 x HDMI 1.4b	
DisplayPort	1 x DP 1.2a	2 x DP 1.2a
VGA	1	N/A
DVI	N/A	
Ethernet	2 x 1 Gigabit LAN	
USB	4 x USB 3.1 (Gen1)	
Audio	2 (Mic-in, Line-out)	
COM	COM1, 2(RS-232/422/485)	
PS2	N/A	

Internal Connector

USB	4 x USB 2.0 (2 x 2.54 pitch header)	
COM	COM3,4,5(RS-232)	
Parallel	N/A	
GPIO	4 x GPI, 4 x GPO	
TPM	TPM 2.0 onboard IC	
LVDS	1	N/A
eDP	N/A	1
VGA	N/A	
SATA PWR Output	N/A	
Speaker Header	1	

Storage

M.2	N/A
mSATA	1 x Full size with shared SATA3 and USB 2.0
SATA	4 x SATA3 (6Gb/s), SATA3_1 is shared with mSATA
RAID	Supports Intel® vPro, AMT, RAID 0/1/5/10

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	ATX PWR (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 Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Assured Systems

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