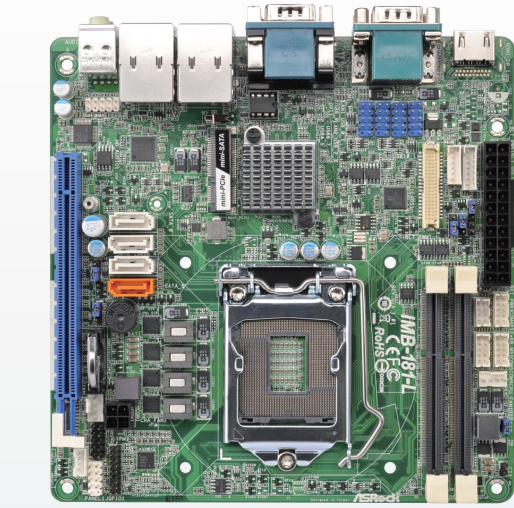


# IMB-181-L / IMB-181-D

Mini-ITX Motherboard

## Spotlight Features

- Supports Intel® 4th Gen (Haswell-S) Core™ Processors (Socket 1150)
- Supports Dual Channel DDR3 SO-DIMM 1600, up to 16GB
- 1 x HDMI, 1 x VGA, 1 x LVDS (IMB-181-L)
- 1 x HDMI, 1 x DVI, 1 x Displayport (IMB-181-D)
- 4 x USB 3.0, 8 x USB 2.0, 4 x SATA3
- 1 x Mini-PCIe, 1 x PCIe x16, 1 x mSATA
- 2 x Intel® LAN
- 1 x TPM Header
- ATX PWR (4 + 24)



## Specifications

Processor System	IMB-181-L	IMB-181-D
Dimensions	Mini-ITX (6.7-in x 6.7-in)	
CPU	Supports Intel® 4th Gen (Haswell-S) Core™ Processors	
Chipset	Intel® Q87	

Expansion Slot	
PCIe	1 x PCIe x16
Mini-PCIe	N/A
M.2	N/A
mini-PCIe/ mSATA	1 x full size with PCIe x1, SATA3 and USB2.0

Memory	
Technology	Dual Channel DDR3 1333/1600MHz
Max	16GB
Socket	2 x SO-DIMM

Graphics	
Controller	Intel HD Graphics (By CPU)
VGA	Supports max resolution 2048 x 1536
LVDS	1 / N/A
eDP	N/A
HDMI	Supports HDMI 1.4a, max resolution 1920x1200
DVI	N/A
DisplayPort	N/A / Supports HDMI 1.4a, max resolution 2560x1600
Multi Display	Triple Display

Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Intel I217LM, 1 x Intel I210

Rear I/O	IMB-181-L	IMB-181-D
VGA	1	N/A
DVI	N/A	1 (DVI-I)
HDMI	1	
DisplayPort	N/A	1
Ethernet	2	
USB	4 x USB 3.0	
Audio Jack	2 (Mic-in, Line-out)	
Serial	3 x COM (RS-232/422/485)	
PS/2	N/A	

Internal Connector	
USB	8 x USB 2.0
LVDS	1 / N/A
eDP	N/A
VGA	1
Serial	3 x COM (RS-232)
SATA	2 x SATA3
Parallel	N/A
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	N/A
Speaker Header	1
TPM	1 x Header

Watchdog Timer	
Output	Output from super I/O to drag RESETCON#
Interval	256 Segments, 0,1,2...255 Sec/Min

Power Requirements	
Input PWR	ATX PWR (4 + 24)
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