



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

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