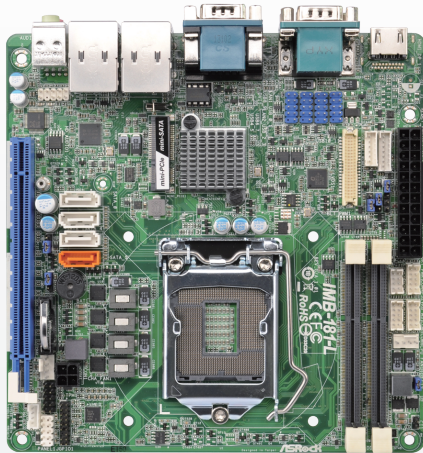




IMB-181-L

IMB-181-D

## 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<br>AT : Directly PWR on as Power input ready<br>ATX: Press Button to PWR on after Power input ready |

| Environment           |              |
|-----------------------|--------------|
| Operating Temperature | 0°C – 60°C   |
| Storage Temperature   | -40°C – 85°C |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660