



# IMB-171-L

## Mini-ITX Motherboard

### Spotlight Features

- Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Ivy Bridge and Sandy Bridge)
- Intel® Q77 Chipset
- Integrated Intel® HD Graphics Built-in Visuals
- Supports DDR3 1600MHz, 2 x SO-DIMM, up to 16GB system memory
- 2 x COM (RS-232/422/485), 4 x COM (RS-232)
- 1 x D-Sub, 1 x HDMI, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.0, 6 x USB 2.0, 2 x SATA3, 2 x SATA2
- 1 x PCIe x16, 1 x mini-PCIe
- Gigabit LAN : 1 x Intel 82579LM, 1 x Intel 82583V
- 1 x TPM Header

### Specifications

| Processor System |  |
|------------------|--|
| Dimension        | Mini-ITX (6.7-in x 6.7-in)   |
| CPU              | Socket LGA1155 for Intel Core i7/i5/i3/Celeron (Sandy Bridge and Ivy Bridge) |
| Core Number      | (By CPU, Max 4)  |
| Max Speed        | (By CPU)   |
| L3 Cache         | (By CPU)   |
| Chipset          | Q77  |
| BIOS             | UEFI   |

| Expansion Slot    |  |
|-------------------|--|
| PCI               | N/A  |
| Mini-PCIe         | 1 x half size with PCIe x1 and USB 2.0         |
| mSATA             | N/A  |
| PCIe              | 1 (x16) (IVY Bridge: Gen3; Sandy Bridge: Gen2) |
| CFast Card Socket | N/A  |

| Memory     |  |
|------------|--|
| Technology | Dual Channel DDR3 1066/1333/1600 MHz SDRAM |
| Max.       | 16GB                                       |
| Socket     | 2 x SO-DIMM                                |

| Graphics      |   |
|---------------|---|
| Controller    | Intel HD Graphics (By CPU)                            |
| VRAM          | Shared Memory   |
| VGA           | Supports max resolution 2048 x 1536                   |
| LVDS          | Dual Channel 24-bit, support max resolution 1920x1200 |
| HDMI          | Supports HDMI 1.4a, max resolution 1920x1200          |
| DVI           | No  |
| Display Port  | No  |
| Multi Display | Yes   |

| Ethernet   |   |
|------------|---|
| Interface  | 10/100/1000 Mbps                            |
| Controller | GbE LAN1: Intel 82583V, LAN2: Intel 82579LM |
| Connector  | RJ-45 x 2 w/ LED                            |

| SATA                   |  |
|------------------------|--|
| Max Data Transfer Rate | 2 x SATA2 (3.0Gb/S), 2 x SATA3 (6.0Gb/S), Supports RAID0/1/5 |

| Rear I/O     |  |
|--------------|--|
| VGA          | 1  |
| HDMI         | 1  |
| DVI-I/D      | 0  |
| Display Port | 0  |
| Ethernet     | 2  |
| USB          | 6 (2 x USB 2.0 compliant, 4 x USB 3.0 compliant) |
| Audio        | 2 (Mic-in, Line-out)                             |
| Serial       | 2 (RS-232/422/485)                               |
| PS/2         | 1 (Combo)  |

| Internal Connector  |  |
|---------------------|--|
| USB                 | 4 (USB 2.0 compliant)  |
| LVDS/Inverter       | 1/1  |
| VGA                 | 0  |
| Serial              | 4 (RS-232)   |
| SATA                | 2 x SATA2 (3.0Gb/s), 2 x SATA3 (6.0Gb/s), Supports RAID0/1/5 |
| m-SATA              | 0  |
| Mini-PCIe           | 1  |
| Parallel            | 0  |
| IrDA                | 0  |
| GPIO                | 4 x GPI + 4 x GPO  |
| SATA PWR Output Con | 0  |
| Speaker Header      | 1  |

| Watchdog Timer |   |
|----------------|---|
| Output         | Output from super I/O to drag RESETCON# |
| Interval       | 256 segments, 0,1,2...255sec/min        |

| Power Requirements |   |
|--------------------|---|
| Input PWR          | ATX PWR (24+4 pin)  |
| 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 |

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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