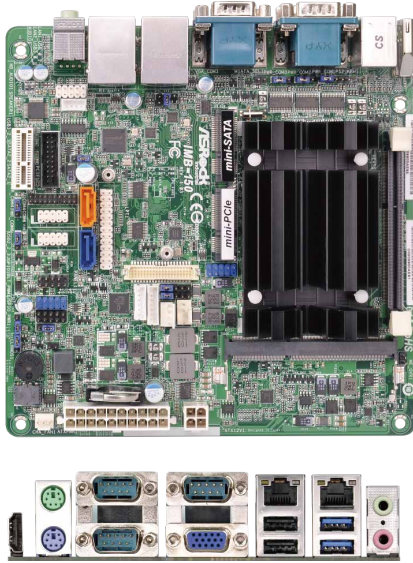




# IMB-150D

Mini-ITX Motherboard

## Spotlight Features

- Intel® Baytrail SoC Processor J1900
- Supports Dual Channel DDR3L SO-DIMM 1333, up to 8GB
- 1 x HDMI, 1 x VGA, 1 x LVDS
- 4 x USB 3.0, 6 x USB 2.0, 2 x SATA2
- 1 x Mini-PCIe, 1 x PCIe x1, 1 x mSATA
- 2 x Realtek LAN
- 1 x TPM Header
- 9-19V DC-In (4-pin ATX PWR Con)

## Specifications

### Processor System

|            |                                                             |
|------------|-------------------------------------------------------------|
| Dimensions | Mini-ITX (6.7-in x 6.7-in)                                  |
| CPU        | Intel® Baytrail SoC Processor<br>-J1900, QC, 2.00 GHz, 10 W |
| Chipset    | SOC                                                         |

### Expansion Slot

|           |                                   |
|-----------|-----------------------------------|
| PCIe      | 1 x PCIe x1                       |
| Mini-PCIe | 1 x half size with PCIe x1        |
| M.2       | N/A                               |
| mSATA     | 1 x full size with SATA2 (shared) |

### Memory

|            |                            |
|------------|----------------------------|
| Technology | Dual Channel DDR3 1333 MHz |
| Max        | 8GB                        |
| Socket     | 2 x SO-DIMM                |

### Graphics

|               |                                                |
|---------------|------------------------------------------------|
| Controller    | Intel® Gen7 Intel Graphics DX 11*, OGL3.2      |
| VGA           | Supports max resolution up to 1920 x 1200      |
| LVDS          | Supports max resolution up to 1920 x 1200@60Hz |
| eDP           | N/A                                            |
| HDMI          | Supports max resolution up to 1920x1200        |
| DVI           | N/A                                            |
| DisplayPort   | N/A                                            |
| Multi Display | Dual Display                                   |

### Ethernet

|            |                                     |
|------------|-------------------------------------|
| Interface  | 10/100/1000 Mbps                    |
| Controller | 2 x Realtek RTL8111G-CG/RTL8111H-CG |

### Rear I/O

|             |                          |
|-------------|--------------------------|
| VGA         | 1                        |
| DVI         | N/A                      |
| HDMI        | 1                        |
| DisplayPort | N/A                      |
| Ethernet    | 2                        |
| USB         | 2 x USB 3.0, 2 x USB 2.0 |
| Audio Jack  | 2 (Mic-in, Line-out)     |
| Serial      | 3 x COM (RS-232/422/485) |
| PS/2        | 2                        |

### Internal Connector

|                     |                          |
|---------------------|--------------------------|
| USB                 | 2 x USB 3.0, 4 x USB 2.0 |
| LVDS                | 1                        |
| eDP                 | N/A                      |
| VGA                 | N/A                      |
| Serial              | 2 x COM (RS-232)         |
| SATA                | 2 x SATA2                |
| Parallel            | 1                        |
| GPIO                | 4 x GPI + 4 x GPO        |
| SATA PWR Output Con | 1                        |
| Speaker Header      | 1                        |
| TPM                 | 1 x Header               |

### Watchdog Timer

|          |                                   |
|----------|-----------------------------------|
| Output   | From Super I/O to drag RESETCON#  |
| Interval | 256 segments, 0,1,2,...255sec/min |

### Power Requirements

|           |                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------|
| Input PWR | 9-19V DC-In (4-pin ATX PWR Con)                                                                                      |
| 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 |

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