

# IMB-148

## Mini-ITX Motherboard



### Spotlight Features

- Intel® Atom™ CedarView Processor D2550
- Intel® NM10 Express Chipset
- Integrated Intel® PowerVR SGX545, DirectX 9.0, PS3.0
- Supports DDR3 1066MHz, 2 x SO-DIMM, up to 4GB system memory
- 4 x COM (RS-232)
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 8 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe
- Gigabit LAN : 1 x Realtek Lan
- 9~19V DC-in

### Specifications

| Processor System       |  |
|------------------------|--|
| Dimension              | Mini-ITX (6.7-in x 6.7-in)   |
| CPU                    | Intel® Atom™ CedarView Processor D2550<br>Supports Hyper-Threading Technology  |
| Core Number            | 2  |
| Max Speed              | D2550: 1.86 GHz  |
| L3 Cache               | N/A  |
| Chipset                | NM10   |
| BIOS                   | UEFI   |
| Expansion Slot         |  |
| PCI                    | 0  |
| Mini-PCIe              | 1( half size) PCIe only  |
| mSATA                  | 0  |
| PCIe                   | 1*1x   |
| CFast Card Socket      | 0  |
| Memory                 |  |
| Technology             | Single Channel DDR3 800/1066 MHz SDRAM   |
| Max.                   | 4 GB   |
| Socket                 | 2 x SO-DIMM  |
| Graphics               |  |
| Controller             | Intel® PowerVR SGX545, Support DirectX9 compliant Pixel Shader v3.0 and OGL 3.0                                      |
| VRAM                   | share Memory   |
| VGA                    | Supports max. resolution 1920 x 1200   |
| LVDS                   | Single channel 24-bit, max resolution 1440 x 900@60Hz  |
| HDMI                   | 1  |
| DVI                    | no   |
| Display Port           | no   |
| Multi Display          | Yes (Dual Display)   |
| Ethernet               |  |
| Interface              | 10/100/1000 Mbps   |
| Controller             | GbE LAN Realtek  |
| Connector              | 1 x RJ 45  |
| SATA                   |  |
| Max Data Transfer Rate | SATA2 (3.0Gb/s)  |
| Rear I/O               |  |
| VGA                    | 1  |
| HDMI                   | 1  |
| DVI-I/D                | 0  |
| Display Port           | 0  |
| Ethernet               | 1  |
| USB                    | 4 x USB 2.0  |
| Audio                  | 2 (Mic-in, Line-out)   |
| Serial                 | 0  |
| PS/2                   | 0  |
| Internal Connector     |  |
| USB                    | 4 x USB 2.0  |
| LVDS/Inverter          | 1/1  |
| VGA                    | 1 (shared with rear I/O VGA )  |
| Serial                 | 4 RS-232   |
| SATA                   | 2 x SATA2 ( 3.0Gb/s)   |
| m-SATA                 | 0  |
| Mini-PCIe              | 1  |
| Parallel               | 1  |
| IrDA                   | 0  |
| GPIO                   | 4 in / 4 out   |
| SATA PWR Output Con    | 1  |
| Speaker Header         | 1  |
| 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 (2-pin 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   |