



IMB-152

Mini-ITX Motherboard

Spotlight Features

- Intel® Baytrail SoC Processor
-IMB-152D (J1900)
- Integrated Intel® Gen7 Intel Graphics DX 11*, OGL3.2
- Supports Single Channel DDR3L 1333 SO-DIMM, up to 8GB
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 4 xUSB 3.0, 6 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe, 1 x PCIe x1 slot
- Gigabit LAN : 1 x Realtek Lan
- 1 x TPM Header
- 12 V DC-in

Specifications

Processor System

| | |
|-------------|---|
| Dimension | Mini-ITX (6.7-in x 6.7-in) |
| CPU | Intel® Baytrail SoC Processor IMB-152D (J1900, QC, 2.00GHz, 10W) |
| Core Number | (By CPU, Max 4) |
| Max Speed | (By CPU) |
| L2 Cache | (By CPU) |
| Chipset | (By CPU) |
| BIOS | UEFI |

Expansion Slot

| | |
|-------------------|---------------|
| PCI | 0 |
| Mini-PCIe | 1 (Half Size) |
| mSATA | 0 |
| PCIe | 1 (x1) |
| CFast Card Socket | 0 |

Memory

| | |
|------------|-------------------------------------|
| Technology | Single Channel DDR3L 1333 MHz SDRAM |
| Max. | 8GB |
| Socket | 1 x SO-DIMM |

Graphics

| | |
|---------------|--|
| Controller | Intel® Gen7 Intel Graphics DX 11*, OGL3.2 |
| VRAM | Shared Memory |
| VGA | Supports max. resolution 1920 x 1200 |
| LVDS | Dual channel 24-bit, max resolution 1920 x 1200@60Hz |
| HDMI | Supports HDMI 1.4a, max resolution 1920x1200 |
| DVI | No |
| Display Port | No |
| Multi Display | Yes (Dual Display) |

Ethernet

| | |
|-------------------|----------------------------------|
| Controller/ Speed | 10/100/1000 Mbps |
| Connector | 1 x Realtek RTL8111G/RTL8111H-CG |

SATA

| | |
|------------------------|-----------------|
| Max Data Transfer Rate | SATA2 (3.0Gb/s) |
|------------------------|-----------------|

Rear I/O

| | |
|--------------|--------------------------------|
| VGA | 1 |
| HDMI | 1(Pin Header) |
| DVI-I/D | 0 |
| Display Port | 0 |
| Ethernet | 1 Optional 2 |
| USB | 4 x USB 3.0 |
| Audio | 2 (Mic-in, Line-out) |
| Serial | 3 x RS-232 |
| e-SATA | |
| PS/2 | 2 (1 x keyboard and 1 x mouse) |

Internal Connector

| | |
|---------------------|--|
| USB | 6 (3*2.54 pitch header USB 2.0 compliant) |
| LVDS/Inverter | 1/1 |
| VGA | 0 |
| Serial | 3 (RS-232) |
| SATA | 2 x SATA2 (3.0Gb/s) |
| m-SATA | 0 |
| Mini-PCIe | 1 |
| Parallel | 1 |
| IrDA | 0 |
| GPIO | 4 x GPI + 4 x GPO Share with COM 5 |
| 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 | 12V DC-In (4-pin ATX PWR Con) |
| 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 |
|-----------------------|------------|

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