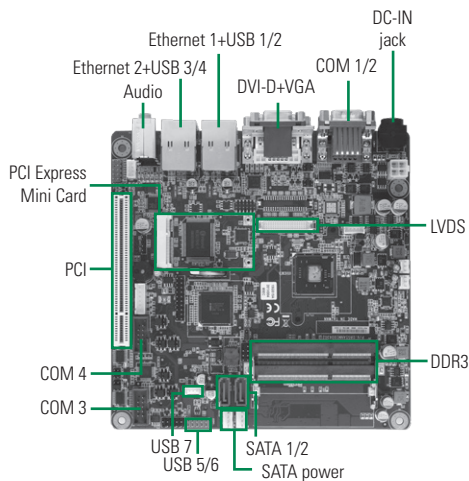


MANO831

Intel® Atom™ D2550 Mini ITX SBC with Intel® NM10 Chipset, VGA/DVI-D/LVDS, Dual LANs and HD Audio



System

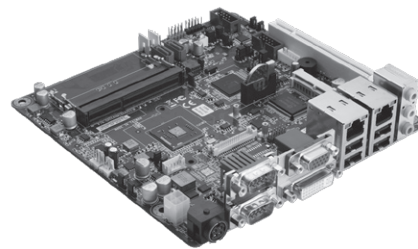
| | |
|---------------------|--|
| CPU | Intel® Atom™ processor D2550 onboard |
| System Memory | 2 x 204-pin SO-DIMM, support DDR3-1066 max. up to 4 GB |
| Chipset | Intel® NM10 PCH |
| BIOS | AMI 16Mb flash ROM |
| SSD | N/A |
| Watchdog Timer | Reset: 1 to 255 sec/min per step |
| Expansion Interface | 1 x PCI 1 x mini PCIe |
| Battery | Lithium 3V/220 mAH |
| Power Requirements | TBD |
| Size | 170 x 170 mm |
| Board Thickness | 1.6 mm |
| Temperature | 0° ~ +60°C (32°F ~ 140°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|---|
| MIO | 2 x RS-232 (COM 1 ~ 2) 2 x RS-232/422/485 (COM 3 ~ 4) |
| SATA | 2 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and support Smart fan control |
| Ethernet | 2 x Realtek RTL8111E for Gigabit LAN |
| Audio | HD Codec audio as MIC-in/Line-in/Line-out speaker-out with Realtek ALC892 |
| USB | 7 x USB 2.0 |
| SMBus | N/A |
| Digital I/O | 8 Channels (4-IN & 4-OUT) |
| TPM | Infineon TPM1.2 SLB9635 |

Features

- Intel® Atom™ processor D2550 onboard
- 2 DDR3 1066 MHz up to 4 GB
- Dual view display via DVI-D/VGA/LVDS
- PCI/Mini PCIe expansion slot
- 2 x SATA-300 supported
- 7 USB 2.0 supported
- TPM 1.2 supported



▲ Side view

Display

| | |
|-------------------|--|
| Chipset | Intel® Graphics Media Accelerator (GMA) 3650 |
| Memory Size | Share memory |
| Display interface | 1 x VGA 1 x DVI-D 1 x LVDS |

Packing List

User's manual/utility CD, cable

Ordering Information

| Standard | |
|----------|---|
| MANO831 | Mini ITX SBC with Intel® Atom™ D2550, VGA/DVI-D/LVDS, 2 10/100/1000Mbps Ethernet, 4 COM, 7 USB and HD audio |

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CPU
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Accessories

Appendix