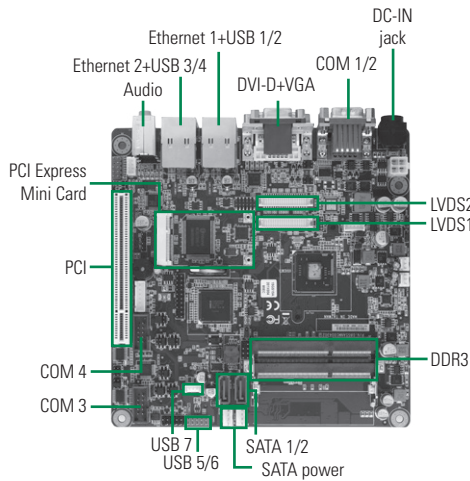


MANO831

Intel® Atom™ Processor D2550 Mini-ITX SBC with Intel® NM10 Chipset, VGA/DVI-D/LVDS1/LVDS2, Dual LAN and HD Audio



System

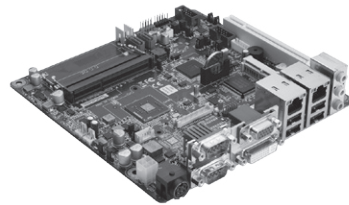
CPU	Intel® Atom™ processor D2550 (1.86 GHz)
System Memory	2 x 204-pin SO-DIMM, support DDR3-1066 max. up to 4 GB
Chipset	Intel® NM10
BIOS	AMI 16Mb flash ROM
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI 1 x mini PCIe
Battery	Lithium 3V/220 mAh
Power Requirements	+12V @ 1.6A
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 TPM 1.2 SLB9635

Features

- Intel® Atom™ processor D2550 (1.86 GHz) onboard
- 2 DDR3-1066 MHz max. up to 4 GB
- Dual view display via DVI-D/VGA/LVDS1/LVDS2
- PCI/Mini PCIe expansion slot
- 2 SATA-300 interfaces
- 7 USB 2.0 ports
- 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 LVDS1 (single channel) 1 x LVDS2 (dual channel)

Packing List

User's manual/utility CD, cable

Ordering Information

Standard	
MANO831	Mini ITX SBC with Intel® Atom™ D2550, VGA/DVI-D/LVDS, 2 GbE LAN, 4 COM, 7 USB and HD audio
Optional	
59460642100E	COM port Cable, 5 x 2P, P=2.54 mm, L=300 mm
594F2112100E	COM port DB9 to 5x2P P=2.54 L30cm w/BK
594F2112110E	COM portx2 DB9 to 5x2P P=2.54 L30cm w/BK

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

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Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

4 Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix

