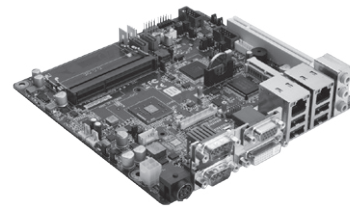
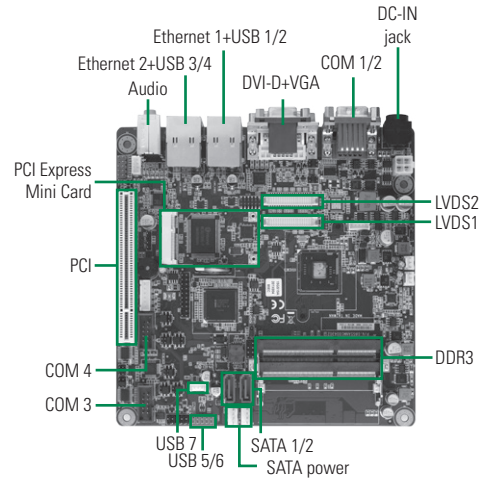


MANO831

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

Features

- Intel® Atom™ processor D2550 (1.86 GHz) onboard
- 2 DDR3-1066 SO-DIMM, up to 4GB
- DVI-D/VGA/LVDS1/LVDS2 with dual-view supported
- PCI and PCI Express Mini Card
- 2 SATA-300
- 7 USB 2.0 ports
- TPM 1.2 supported



Core System

CPU	Intel® Atom™ processor D2550 (1.86 GHz)
System Memory	2 x 204-pin DDR3-1066 SO-DIMM, up to 4GB
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 PCI Express Mini Card
Battery	Lithium 3V/220 mAh
Power Requirements	+12V @ 1.6A
Size	170 x 170 mm
Board Thickness	1.6 mm
Temperature	0°C ~ +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

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	
MANO831VGGGA (P/N: E38M831100)	Mini-ITX SBC with Intel® Atom™ D2550, VGA/DVI-D/LVDS, 2 GbE LANs, 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 5 x 2P P=2.54 mm, L=300 mm w/BK
594F2112110E	COM portx2 DB9 to 5 x 2P P=2.54 mm, L=300 mm w/BK

