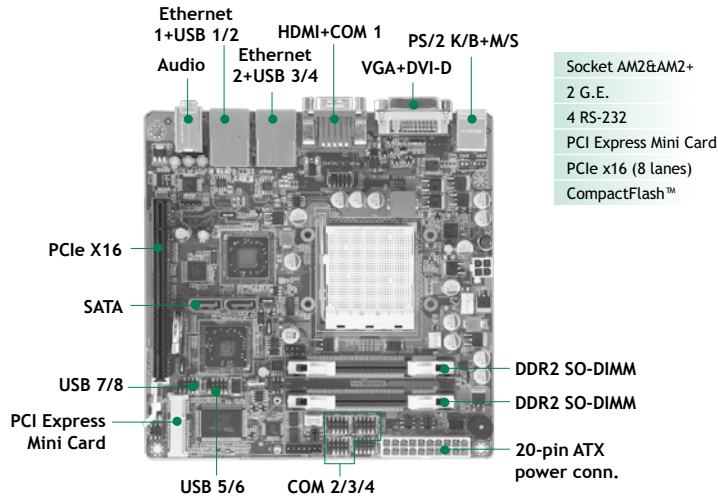


MANO110

AMD64 Athlon AM2&AM2+ Mini ITX SBC with HDMI, DVI-D, VGA, 4 COM and 8 USB



System

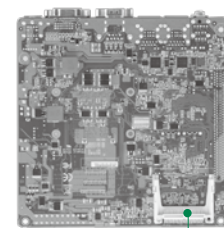
| | |
|---------------------|---|
| CPU | AM2/AM2+ socket for AMD Athlon™ X2/ Turion™ X2/ Athlon™ processors |
| System Memory | 2 x 200-pin SO-DIMM supports DDR2-800 max. up to 4 GB |
| Chipset | AMD RS780E + SB710 |
| BIOS | AMI |
| SSD | 1 x CompactFlash™ type-II |
| Watchdog Timer | 255 levels, 1-255 sec. |
| Expansion Interface | 1 x PCIe x16 (8 lanes) 1 x PCI Express Mini Card |
| Battery | Lithium 3V/220 mAH |
| Power Requirements | AMD Athlon™ 3100+ 2.0 GHz, 2GB DDR2 Max. RMS: +5V_SBY @ 0.375A, +3.3V @ 1.431A, +5V @ 1.539A, +12V @ 1.253A, -12V @ 0.054A |
| Size | 170 x 170 mm |
| Board Thickness | 1.6 mm |
| Temperature | 0° C ~ +60° C (32° F ~ 140° F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

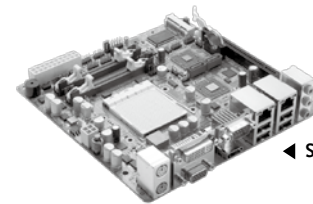
| | |
|---------------------|--|
| MIO | 1 x PS/2 keyboard 1 x PS/2 mouse 4 x RS-232; with +5V/+12V powered |
| SATA | 2 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and support Smart Fan control |
| Ethernet | 2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B |
| Audio | HD Codec audio as MIC-in/Line-in/Line-out/speaker-out with Realtek ALC888 |
| USB | 8 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control interface |
| Digital I/O | 8 channels IN/OUT programmable |

Features

- AMD64 embedded Athlon AM2&AM2+ processor
- With high graphics performance via AMD RS780E chipset
- HDMI display output
- 4 COM ports for transaction terminal applications
- 8 USB 2.0 ports



◀ Rear view



◀ Side view

Display

| | |
|-------------------|----------------------------------|
| Chipset | ATI Radeon™ HD 3200 Graphics |
| Memory Size | Max. up to 512 MB |
| Display Interface | 1 x VGA 1 x HDMI 1 x DVI-D |

Packing List

| Standard | | | |
|---|-------------|----------------|----------------|
| Quick installation guide, user's manual/utility CD, cable, CPU cooler | | | |
| Cable | | | |
| Part Number | Description | E38M110100 Qty | E38M110101 Qty |
| SATA cable | | 1 | 1 |
| COM port x 2 cable | | 1 | |

Ordering Information

| Standard | |
|---|---|
| MANO110HDGGA w/o CPU cooler (P/N: E38M110101) | AMD64 Athlon AM2&AM2+ Mini ITX SBC with HDMI, DVI-D, VGA, 2 10/1000/1000Mbps Ethernet, HD audio, 4 COM and 8 USB ports |
| MANO110HDGGA w/ CPU cooler (P/N: E38M110100) | AMD64 Athlon AM2&AM2+ Mini ITX SBC with HDMI, DVI-D, VGA, 2 10/1000/1000Mbps Ethernet, HD audio, 4 COM and 8 USB ports (Please order with 5078M110000E) |
| MANO110 CPU cooler (P/N: 5078M110000E) | MANO110 CPU cooler |