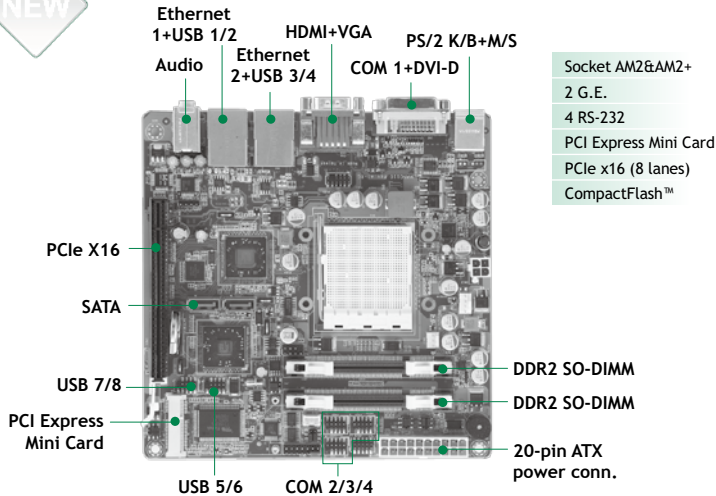


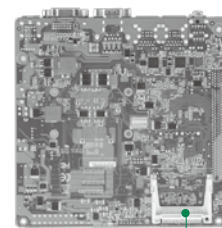
MANO110

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



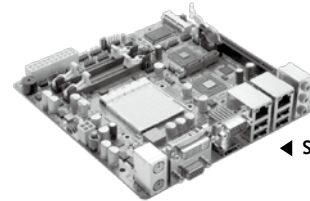
Features

- 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

CF (optional)



◀ Side view

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 4GB
Chipset	AMD RS780E + SB710
BIOS	AMI
SSD	1 x CompactFlash™ type-II (optional)
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
Size/Weight	170 x 170 mm
Temperature	0° C - +60° C (32° F - 140° F), operation
Operation 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 ports
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	8 channels IN/OUT programmable

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; dual link

Packing List

Quick installation guide, user's manual/utility CD, cable

Ordering Information

Standard	
MANO110HDGGA	AMD64 Athlon AM2&AM2+ Mini ITX SBC with HDMI, DVI-D, VGA, 2 10/1000/1000Mbps, HD audio, 4 COM and 8 USB ports

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix