

# MANO111

Mini-ITX SBC with AMD Embedded R-Series APU, AMD A75, DDR3, USB 3.0, LVDS/DisplayPort/DVI-D and Dual LANs

## Features

- FS1r2 Socket AMD Embedded R-Series APU
- AMD A75 FCH
- Integrated graphics AMD Radeon HD 7 series
- DDR3-1333/1600 Dual channel SO-DIMM, up to 16GB
- 4 SATA-600 with RAID 0/1/5/10
- 4 USB 3.0 ports
- DisplayPort/LVDS/DVI-D with 4 independent displays supported
- DisplayPort 2 supports multi-stream
- TPM 1.2 supported
- DASH Remote Management Supported

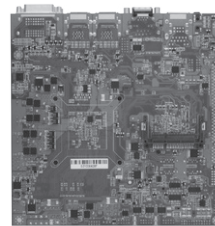
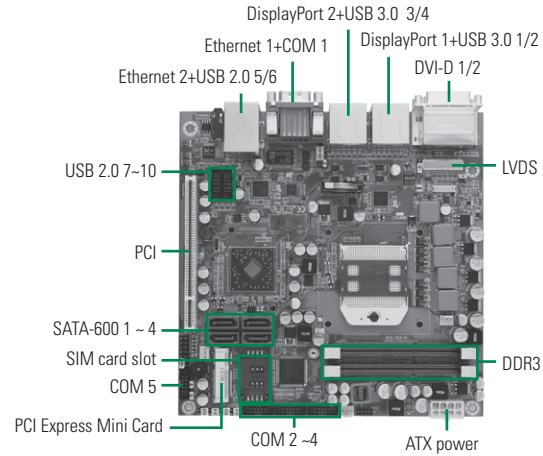


### Core System

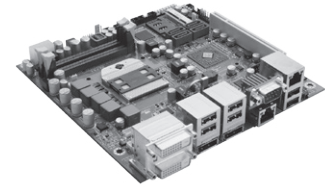
CPU	FS1r2 socket AMD Embedded R-Series APU
System Memory	2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB
Chipset	AMD A75
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	CFast™
Watchdog Timer	255 level, 1 ~ 255 sec
Expansion Interface	PCI, PCI Express Mini Card, SIM card
Battery	Lithium 3V/220 mAh
Power Requirements	AMD R-Series R-464L 2.3 GHz, 8GB DDR3 1600 x 2 +12V @ 3.4A
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	1 x RS-232/422/485 (COM 1); with +5V/+12V. 4 x RS-232 (COM 2-5); with +5V/+12V.
SATA	4 SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and support Smart fan control
Ethernet	1st port as 10/100/1000 Mbps supports wake-on-LAN PXE with Realtek RTL8111E 2nd port as 10/100/1000 Mbps supports wake-on-LAN, PXE and DUSH with Realtek RTL8111DP
Audio	Supports 2.1 channel audio lineout via HD Codec ALC662
USB	4 x USB 3.0 6 x USB 2.0
TPM	1.2
SMBus	N/A
Digital IO	8 channels (4-IN & 4-OUT)



▲ Rear view



▲ Side view

### Display

Chipset	Integrated Gfx (AMD Radeon HD7000 series)
Memory Size	Shared memory
LCD Interface	18/24 bit Dual channel LVDS
Display Interface	1 x LVDS 2 x DisplayPort 2 x DVI-D

### Packing List

User's manual/utility CD, cable

### Ordering Information

<b>Standard</b>	
MANO111LGGA-DASH (P/N: E38M111101)	Mini-ITX SBC with AMD R-Series APU, DDR3, LVDS/DisplayPort/DVI-D, 5 COM, 4 USB 3.0 and 2 GbE LANs

