

# MANO500

Mini-ITX SBC with LGA1151 Socket 6th/7th Gen Intel® Core™ Processor, Intel® H110/Q170, HDMI/DisplayPort/VGA/LVDS/eDP, Dual LANs and USB 3.0

## Features

- LGA1151 socket 6th/7th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Skylake/Kaby Lake)
- Intel® H110/Q170
- 2 DDR4-2133 Long-DIMM, up to 32GB
- 1 PCIe x16 slot
- 1 PCI Express Mini Card slot and SIM card slot
- 3 SATA-600 and 1 mSATA
- 4 USB 3.0 and 4 USB 2.0

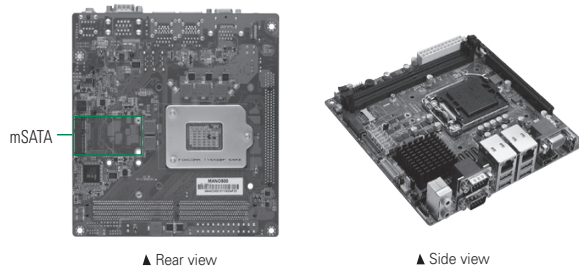
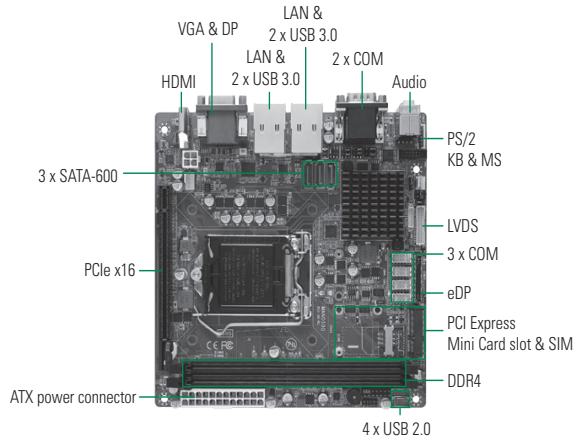


### Core System

CPU	LGA1151 socket 6th/7th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	2 x 288-pin Long-DIMM dual channel DDR4-2133, up to 32GB
Chipset	Intel® H110/Q170
BIOS	AMI
SSD	N/A
Watchdog Timer	255 level, 1 ~ 255 sec.
Expansion Interface	1 x PCIe x16 1 x PCI Express Mini Card slot 1 x SIM Card slot
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 12 ATX connector ATX power AT Auto Power On function supported
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% - 95% relative humidity, non-condensing

### I/O

MIO	1 x PS/2 keyboard & mouse 1 x RS-232/422/485 (with 5V/12V power select) 5 x RS-232
SATA	3 x SATA-600 1 x mSATA
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1st port as 10/100/1000 Mbps supports WOL, PXE with Intel® i219-LM 2nd port as 10/100/1000 Mbps supports, PXE with Intel® i211-AT
Audio	HD Audio as Mic-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 (rear I/O) 4 x USB 2.0
TPM	N/A
Digital I/O	8 channels programmable
SMBus	N/A



### Display

Chipset	Intel® HD Graphics 530/510 for 6th gen processors Intel® HD Graphics 630/610 for 7th gen processors
Memory Size	Shared memory
Display Interface	1 x HDMI 1 x VGA 1 x DisplayPort 1 x LVDS 1 x eDP (co-layer with LVDS) (optional)

### Packing List

<b>Standard</b>	I/O bracket, Driver DVD
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### Ordering Information

<b>Standard</b>	
MANO500VHGGGA (P/N:E38M500101)	Mini-ITX SBC with LGA1151 socket 6th/7th gen Intel® Core™ i7/i5/i3, Pentium®, Celeron® processor, Intel® H110, HDMI/DisplayPort/VGA/LVDS/eDP, 2 GbE LANs and USB 3.0
MANO500VHGGGA-Q170 (P/N:E38M500105)	Mini-ITX SBC with LGA1151 socket 6th/7th gen Intel® Core™ i7/i5/i3, Pentium® Celeron® processor, intel® Q170, HDMI/DisplayPort/VGA/LVDS/eDP, 2 GbE LANs and USB 3.0
<b>Optional</b>	
594M5002100E	2 x COM port with bracket, P=2.0 mm, L=300 mm
59382631000E	2 x USB 2.0 wafer cable with bracket, 180 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
594M5002A00E	PS/2 cable PS/wafer 6-pin P=2.0 mm, L=200 mm
5077L07C000E	LGA115x 1U fan back plate H:2.45 mm
50721127100E	LGA115x 1.5U fan JAC6L23C-C H=35



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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