

# 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® chipset H110/Q170
- 2 DDR4-2133 Long-DIMM, up to 32GB
- 1 PCIe x16 slot
- 1 PCI Express Mini Card and SIM card slots
- 3 SATA-600 and 1 mSATA
- 4 USB 3.0 and 4 USB 2.0 ports

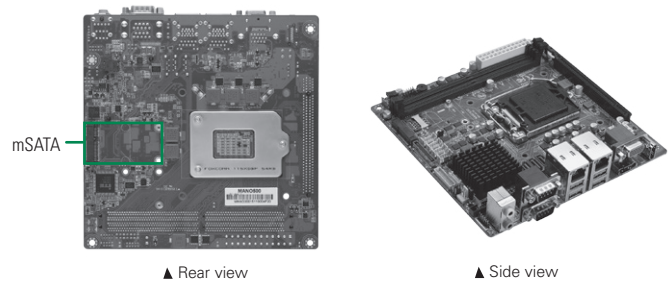
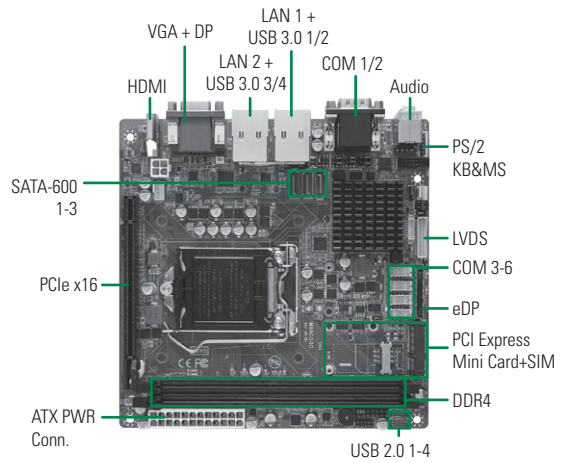


### Core System

CPU	LGA1151 socket 6th/7th generation 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 mSATA 1 x PCI Express Mini Card 1 x SIM card slot
Battery	Lithium 3V/220 mAH
Size/Weight	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 PS/2 keyboard & mouse 1 x RS-232/422/485 (COM 1 with 5V/12V power select) 5 x RS-232 (COM 2-6)
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® i219LM (LAN 1) 2nd port as 10/100/1000 Mbps supports, PXE with Intel® i211AT (LAN 2)
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
SM BUS	N/A



### Display

Chipset	Intel® HD graphics 530/510
Memory Size	Shared memory
Display Interface	1 x HDMI 1 x VGA 1 x DisplayPort 1 x LVDS 1 x eDP (co-lay with LVDS) (optional)

### Packing List

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

<b>Standard</b>	
MANO500VPHGGA (P/N:E38M500101)	Mini-ITX SBC with LGA1151 socket 6th/7th generation Intel® Core™ i7/i5/i3, Pentium®, Celeron® processor, Intel® H110, HDMI/DisplayPort/VGA/LVDS/eDP, 2 GbE LANs and USB 3.0
MANO500VHGGA-Q170 (P/N:E38M500105)	Mini-ITX SBC with LGA1151 socket 6th/7th generation Intel® Core™ i7/i5/i3, Pentium® Celeron® processor, intel® Q170, HDMI/DisplayPort/VGA/LVFD/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

