

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

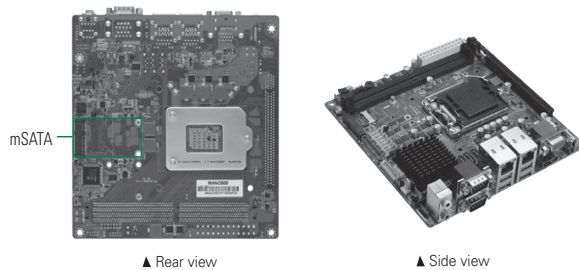
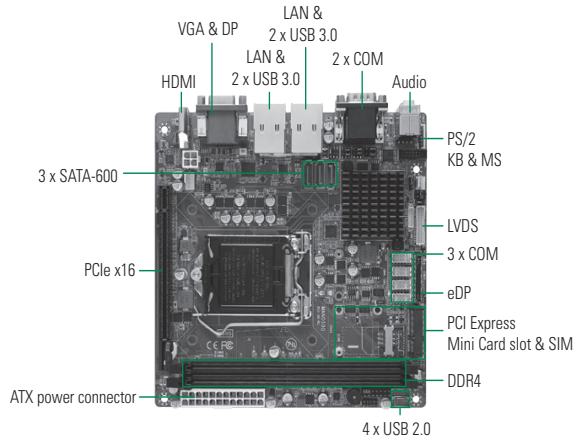


Core System

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|-----------------------|---|
| 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-lay with LVDS) (optional) |

Packing List

| | |
|-----------------|-------------------------|
| Standard | I/O bracket, Driver DVD |
|-----------------|-------------------------|

Ordering Information

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|-------------------------------------|--|
| Standard | |
| 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 |
| Optional | |
| 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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660