

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 slot and SIM card slots
- 3 SATA-600 and 1 mSATA
- 4 USB 3.0 and 4 USB 2.0

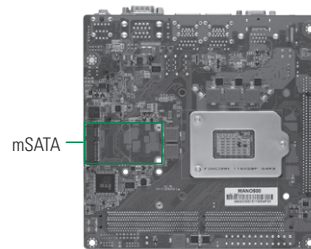
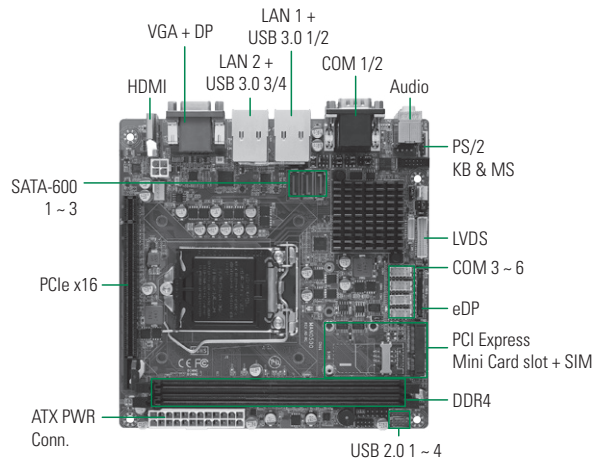


Core System

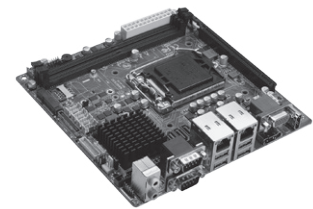
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|---------------------|---|
| CPU | LGA1151 socket 6th/7th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor |
| System Memory | 2 x 288-pin Long-DIMM dual channel DDR4-2133, up to 32GB |
| Chipset | Intel® H110/Q170 |
| BIOS | AMI |
| SSD | 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 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

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|---------------------|--|
| 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 |



▲ Rear view



▲ Side view

Display

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|-------------------|--|
| 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

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

Ordering Information

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|------------------------------------|--|
| Standard | |
| MANO500VPHGGA (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 |
| MANO500VHGGA-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 |

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|-----------------|---|
| 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 |

