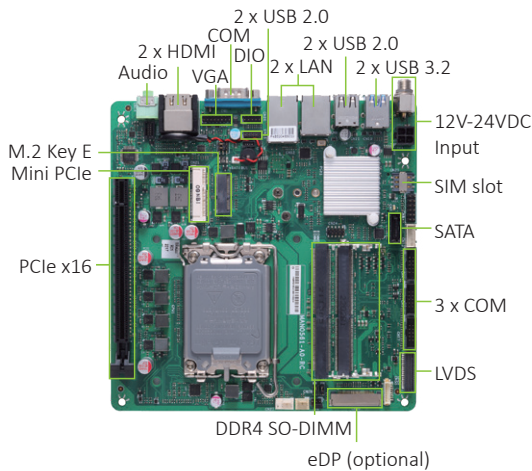


MAN0561

Thin Mini-ITX SBC with LGA1700 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
HDMI, VGA, LVDS, USB 3.2, M.2, and Dual GbE LAN



M.2 Key B
(2242/3042/3052)



▲ Rear view



▲ Side view



▲ ECM550

Features

- LGA1700 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor
- Intel® H610 chipset
- 2 DDR4 SO-DIMM for up to 64GB memory
- 2 USB 3.2 Gen1 and 5 USB 2.0
- 2.5GbE LAN and 4 COM ports
- 1 PCIe x16, 1 M.2 Key E, and 1 M.2 Key B
- 1 full-size PCI Express Mini Card slot
- 1 SATA-600
- 12 to 24 VDC power in



Quad-View



DDR4



M.2



PCIe Mini



12 to 24 VDC



Thin

Specifications

Core System

CPU	LGA1700 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor (up to 65W)
System Memory	2 x 260-pin DDR4-3200/2666/2400 SO-DIMM, up to 64GB
Chipset	Intel® H610
BIOS	AMI
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 1 x M.2 Key B 2242/3042/3052 (with support for SATA & USB 3.2 Gen1) 1 x M.2 Key E 2230 1 x PCIe Mini Card slot (with support for PCIe x1 & USB 2.0) 1 x SIM slot for M.2 Key B
Battery Lithium	Lithium 3V/220mAH
Power Input	1 x 12 to 24V DC Jack 1 x 12 to 24V 4-pin ATX connector

Display

Chipset	Intel® UHD Graphics
Memory Size	Share system memory
Display Interface	2 x HDMI 1 x LVDS (eDP BOM optional) 1 x VGA

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 2500/1000/100/10 Mbps Gigabit/Fast Ethernet with support for Wake-on-LAN and PXE using Intel® I225-V 1 x 1000/100/10 Mbps Gigabit/Fast Ethernet with support for Wake-on-LAN and PXE using Intel® I219-V
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC897
USB	2 x USB 3.2 Gen1 5 x USB 2.0
Serial	1 x RS-232/422/485 (with +5V/+12V power) 3 x RS-232
TPM	Onboard TPM 2.0 (TPM IC: SLB9670)
Digital I/O	8-channel in/out programmed

Mechanical and Environmental

Size	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing

ECM550, Embedded Chassis

Construction	Heavy-duty cold-rolled steel
Indicator	1 x Blue LED for system power-on 1 x Amber LED HDD Active
Panel I/O	Front 4 x D-Sub connector 1 x Power button 2 x USB 2.0 1 x Reset button Rear 1 x Standard Thin Mini-ITX I/O bracket space
ECM550 (P/N: E272550101)	Embedded Thin MicroBox for Low Power Mini-ITX SBC

Packing List

I/O bracket 2pcs (Thin and Standard)

Ordering Information

Standard

MANO561-H-B (P/N: E38M561100)	Mini-ITX SBC with LGA1700 14th/13th/12th gen Intel® Core™ processor, HDMI, VGA, LVDS, USB 3.2, M.2, dual GbE LAN, HD audio, and bulk packing
MANO561-H-S (P/N: E38M561101)	Mini-ITX SBC with LGA1700 14th/13th/12th gen Intel® Core™ processor, HDMI, VGA, LVDS, USB 3.2, M.2, dual GbE LAN, HD audio, and single box packing

Optional

505000001000	LGA1700 Cooler 1U 4500RPM
505000001100	LGA1700 Cooler 1.5U 5500RPM
594P8802810E	USB Cable 150mm with screw USB Type-A Female x1 /HS P1.25-4P Internal
590000039200	COM Cable D-SUB9P to DuPont 2x5 P2.0 L=300 mm
59386831010E	SATA2 Signal Cable 180D, L=350 mm (RC)
590000054400	CBL HS4P_to_SATA15P 300mm HS(XH 2.5 1x4)4P Pitch=2.5 /SATA 15P F 180D Internal
5095AD24000E	ADAPTER 19V 120W with screw
590000064100	VGA cable D-SUB15P_to_HS16P 250mm D-SUB 15PIN(F) /HS(DP 2032H-2x8P)16P2.0 Internal
591000006000	USB cable L=250mm with SCREW USB Type-A Female x 2 /HS (DP 2032H-2x5P)10P2.0 Internal

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