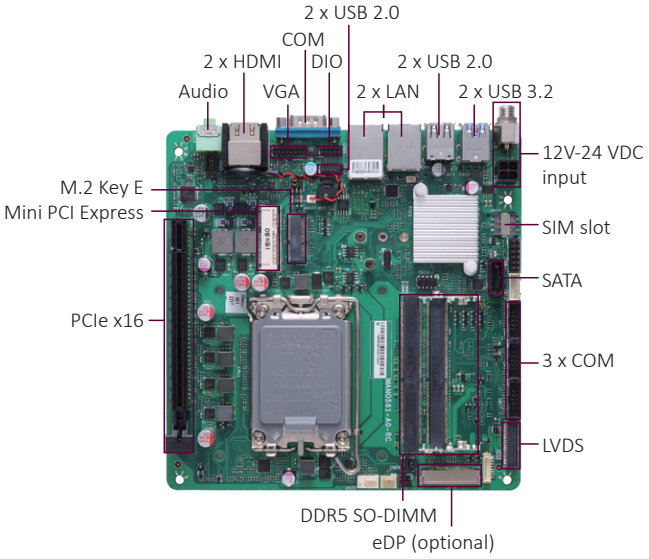
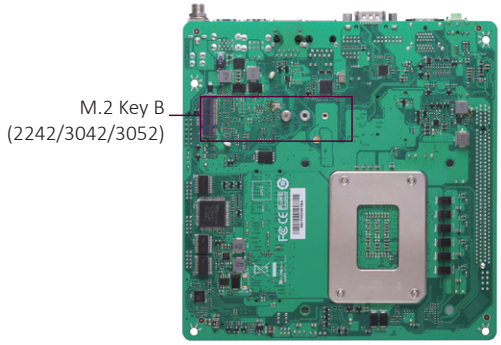
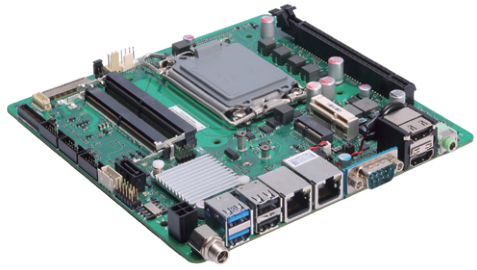
MANO561

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 LAN





▲ Rear view



▲ Side view

Quad-View | M.2 | PCIe Mini | 12 to 24 VDC | Thin

Features

- LGA1700 14th/13th/12th Gen Intel® processor with Intel® H610 chipset
- 2 SO-DIMM sockets, supporting up to 64GB DDR4 or 96GB DDR5
- 2 USB 3.2 Gen 1 and 5 USB 2.0
- 2.5GbE and 4 COM ports
- 1 PCIe x16, 1 M.2 Key E, 1 M.2 Key B, and 1 full-size PCI Express Mini Card slot
- 1 SATA-600
- 12 to 24 VDC power in

Specifications

Core System	
CPU	LGA1700 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor (up to 65W)
System Memory	MANO561-DDR4: 2 x 260-pin DDR4-3200/2666/2400 MHz SO-DIMM, up to 64GB MANO561-DDR5: 2 x 262-pin DDR5-5600 MHz SO-DIMM, up to 96GB
Chipset	Intel® H610
BIOS	AMI UEFI
Storage	1 x SATA-600
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 Gen 1) 1 x M.2 Key E 2230 (with support for PCIe x1 & USB 2.0) 1 x PCI Express 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 24 VDC Jack 1 x 12 to 24V 4-pin ATX connector
Power Consumption (Max.)	145W
Display	
Chipset	Intel® UHD Graphics
Display Interface	2 x HDMI 1 x LVDS (eDP BOM optional) 1 x VGA
I/O	
External	1 x 12 to 24 VDC Jack 2 x HDMI 2 x USB 3.2 Gen 1 1 x 2.5GbE/Fast Ethernet port with support for Wake-on-LAN and PXE using Intel® I226-V 1 x 1GbE/Fast Ethernet port with support for Wake-on-LAN and PXE using Intel® I219-LM 1 x RS-232/422/485 (with +5V/+12V power) 1 x audio jack (Line-out) with Realtek ALC897 2 x USB 2.0
Internal	1 x SATA-600 1 x LVDS 3 x RS-232 3 x USB 2.0 1 x 4-pin ATX connector 1 x audio header (Mic-in/Line-in/Speaker-out)
Key Benefits	
TPM	Onboard TPM 2.0 MANO561-DDR5: TPM IC SLB9672 MANO561-DDR4: TPM IC SLB9670
Digital I/O	8-channel programmable input/output
Hardware Monitoring	Detect CPU/system temperature, voltage, and fan speed
Mechanical and Environmental	
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Relative Humidity	5% to 95% relative humidity, non-condensing

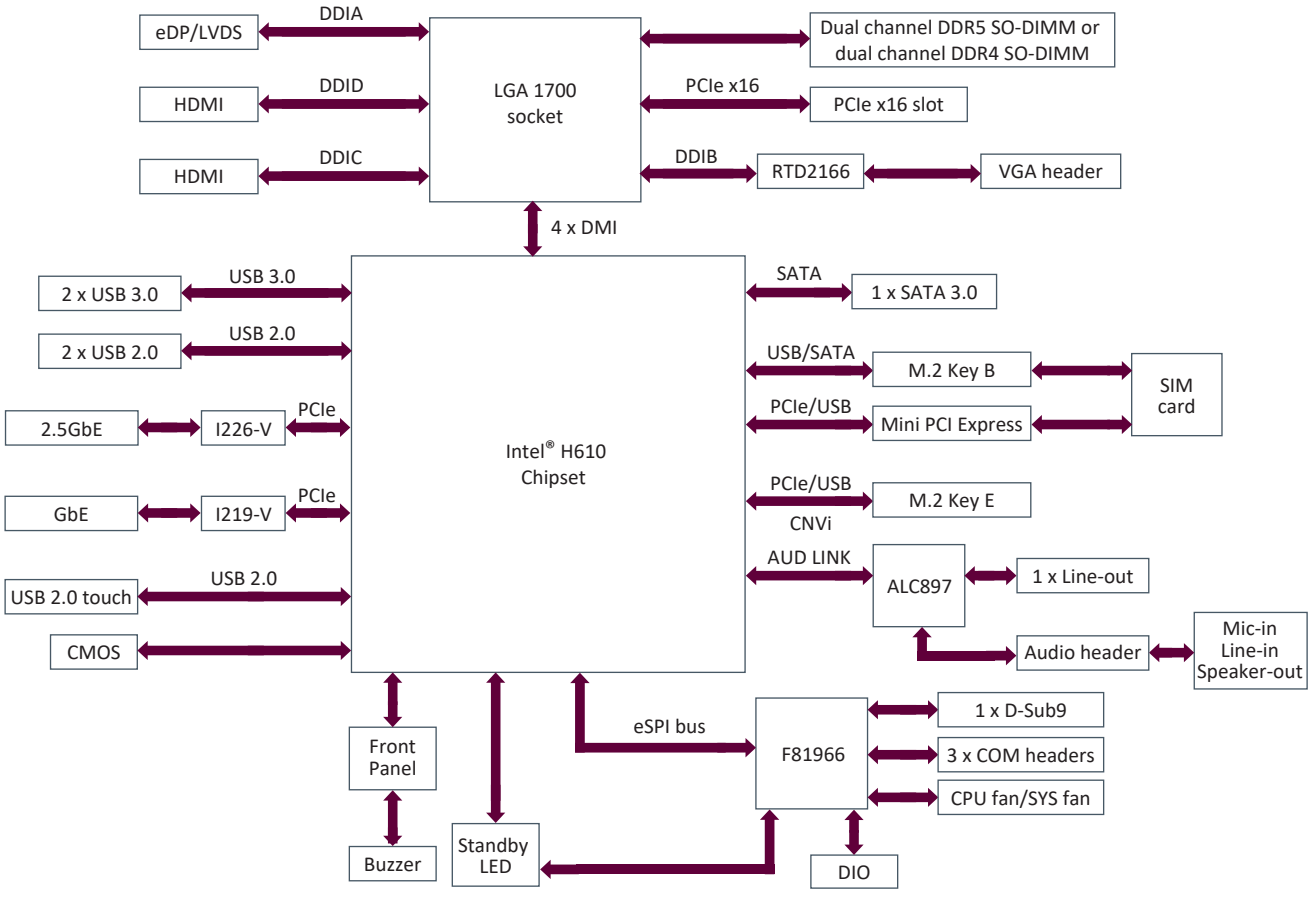
Ordering Information

MANO561-DDR5-B R05 (P/N: E38M561109)	Mini-ITX SBC with LGA1700 14th/13th/12th Gen Intel® Core™ processor, DDR5, HDMI, VGA, LVDS, USB 3.2, M.2, dual LAN, HD audio, and bulk packing
MANO561-DDR5-S R05 (P/N: E38M561110)	Mini-ITX SBC with LGA1700 14th/13th/12th Gen Intel® Core™ processor, DDR5, HDMI, VGA, LVDS, USB 3.2, M.2, dual LAN, HD audio, and single box packing
MANO561-H-B (P/N: E38M561100)	Mini-ITX SBC with LGA1700 14th/13th/12th Gen Intel® Core™ processor, DDR4, HDMI, VGA, LVDS, USB 3.2, M.2, dual LAN, HD audio, and bulk packing
MANO561-H-S (P/N: E38M561101)	Mini-ITX SBC with LGA1700 14th/13th/12th Gen Intel® Core™ processor, DDR4, HDMI, VGA, LVDS, USB 3.2, M.2, dual LAN, HD audio, and single box packing
Optional	
505000001000	LGA1700 1U cooler, 4500 RPM
505000001100	LGA1700 1.5U cooler, 5500 RPM
594P8802810E	USB cable, 150 mm, with screw-lock USB Type-A female and internal HS P1.25 4-pin connector
590000039200	COM cable, D-Sub 9-pin to 2 x 5 DuPont (P=2.0 mm), L=300 mm
59411778010E	SATA 7P locking cable, 180°/180°, L=200 mm
590000054400	CBL HS4P to SATA 15-pin power cable, L=300 mm, XH 2.5 1 x 4 to SATA 15-pin F, 180°, internal
5095AD24000E	19V, 120W screw-lock power adapter
590000064100	VGA cable, D-Sub 15-pin female to HS 16-pin (2 x 8, 2.0 mm pitch), L=250 mm, internal
591000006000	USB cable, L=250 mm, with screws, 2 x USB Type-A female to 10-pin (2.0 mm) internal connector, HS (DP 2032H-2 x 5P)

Packing List

I/O bracket 2 pcs (thin and standard)

Block Diagram



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