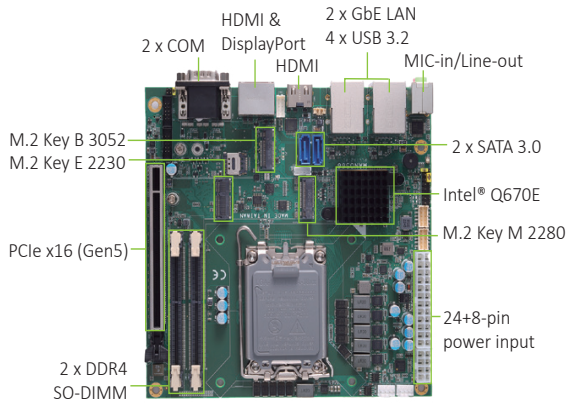


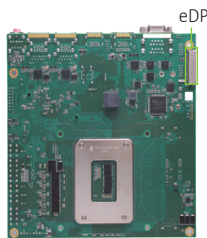
MAN0566 NEW

Mini-ITX SBC with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ Processor, Intel® Q670E/R680E/H610E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, and HD Audio

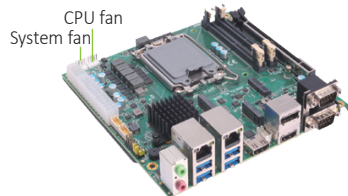


Features

- LGA1700 socket 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3 processor
- Intel® Q670E/R680E/H610E chipset
- 2 DDR4 SO-DIMM for up to 64GB of memory
- 4 USB 3.2 and 4 USB 2.0
- 4 COM ports
- 2 SATA-600 and 1 M.2 Key M 2280
- 1 PCIe x16, 1 M.2 Key E 2230, and 1 M.2 Key B 3052/3042



▲ Rear view



▲ Side view

Specifications

Core System

| | |
|---------------------|--|
| CPU | LGA1700 socket 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3 or Celeron® processor (up to 65W) |
| System Memory | 2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB |
| Chipset | Intel® Q670E/R680E/H610E |
| BIOS | AMI |
| SSD | 1 x M.2 Key M 2280 with support for NVMe |
| Watchdog Timer | 255 levels, 1 to 255 sec. |
| Expansion Interface | 1 x PCIe x16 1 x M.2 Key E 2230 1 x M.2 Key B 3052/3042 |
| Battery Lithium | Lithium 3V/220mAH |
| Power Input | 24+4-pin ATX connector Supports AT Mode Auto Power function |

Display

| | |
|-------------------|--|
| Chipset | Intel® UHD Graphics 700 series engine |
| Memory Size | Share system memory |
| Display Interface | 1 x DisplayPort++ 1 x eDP 2 x HDMI |

I/O

| | |
|---------------------|--|
| SATA | 2 x SATA-600 |
| Hardware Monitoring | Detect CPU/system temperature, voltage, and fan speed |
| Ethernet | 2 x 10/100/1000/2500 Mbps Ethernet with Intel® I226-LM and with Wake-on-LAN and PXE Boot ROM supported |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC888S |
| USB | 4 x USB 3.2 4 x USB 2.0 |
| Serial | 4 x RS-232/422/485 (with +5V/+12V power) |
| TPM | Onboard TPM 2.0 |
| Digital I/O | 8-channel in/out programmed |

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) |
| Humidity | 10% to 95% relative humidity, non-condensing |

Packing List

I/O bracket

Ordering Information

Standard

| | |
|--------------------------------------|---|
| MANO566-Q670E-S (P/N: E38M566100) | Mini-ITX SBC with LGA1700 socket 14th/13th/12th gen Intel® Core™ processor, Intel® Q670E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and bulk packing |
| MANO566-H610E-S (P/N: E38M566101) | Mini-ITX SBC with LGA1700 socket 14th/13th/12th gen Intel® Core™ processor, Intel® H610E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and bulk packing |
| MANO566-R680E-S (P/N: E38M566102) | Mini-ITX SBC with LGA1700 socket 14th/13th/12th gen Intel® Core™ processor, Intel® R680E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and bulk packing |

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.

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