MANO523 NEW

Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, VGA, eDP, USB 3.0, M.2 and Dual GbE LAN

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® Q370 chipset
- 2 DDR4 SO-DIMM for up to 32GB of memory
- 4 USB 3.0 and 4 USB 2.0
- 6 COM ports
- 2 SATA-600 and 1 M.2 Key M
- PCIe x16 and M.2 Key E

Core System

CPU
- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® Pentium® processors Gold/Celeron® processors (up to 65W)

System Memory
- 2 x 260-pin DDR4-2666/2400 SO-DIMM up to 32GB

Chipset
- Intel® Q370

BIOS
- AMI

SSD
- 1 x M.2 Key M (2242/2260/2280); supports NVMe

Watchdog Timer
- 255 levels, 1 to 255 sec.

Expansion Interface
- 1 x PCIe x16
- 1 x M.2 Key E (22 x 30)

Battery
- Lithium 3V/220mAH

Power Input
- STD 12V ATX power
- 24+ pin ATX connector
- AT Mode Auto Power 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% to 95% relative humidity, non-condensing

I/O

SATA
- 2 x SATA-600

Hardware Monitoring
- Detect CPU/system temperature, voltage and fan speed

Ethernet
- 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT, supports Wake-on-LAN, PXE Boot ROM
- 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM, supports Wake-on-LAN, PXE Boot ROM

Audio
- HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662

USB
- 4 x USB 3.0
- 4 x USB 2.0

Serial
- 1 x RS-232/422/485 (with +5V/+12V power)
- 5 x RS-232

PS/2 Combo Port
- N/A

TPM
- Onboard TPM 2.0

SMBus
- N/A

Digital I/O
- 8-channel in/out programmed

Display

Chipset
- Intel® integrated Gfx graphic engine

Memory Size
- Share system memory

Display Interface
- 1 x DisplayPort++
- 1 x eDP
- 1 x VGA

Packing List

Standard

I/O bracket

Ordering Information

Standard

MANO523PVGGA-Q370 Mini-ITX SBC with LGA1151 9th/8th gen Intel® Core™ processor, Intel® Q370, VGA, DisplayPort++, HDMI, LVDS, 2 GbE LAN and HD Audio, Gift Box

Optional

594M5002100E 2 x COM port, P=2.0 mm, L=300 mm
59384500100E SBC84500 audio cable with bracket, P=2.0 mm, L=420 mm
594E8422800E 2 x USB 2.0 wafer cable with bracket, P=2.0, L=180 mm

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