

**COMPACT 1U MINI
DESKTOP / RACKMOUNT
INDUSTRIAL PC**



Rear view



Front view Desktop



IO view

AX-250-1U-540

1U short and compact Industrial PC / workstation

Mini-ITX SBC with LGA1200 Socket 10th gen Intel® Core™ Processor, Intel® H410, DisplayPort++, HDMI, VGA, eDP, USB 3.2, M.2 and Dual GbE LAN



- FCLGA1200 10th gen Intel® Core™ i9/i7/i5/i3 processor
 - Intel® H410 chipset
 - 2 DDR4 SO-DIMM for up to 64GB memory
 - 2 USB 3.2 Gen1 and 5 USB 2.0
 - 6 COM port
 - 1 PCIe x16 and 1 M.2 Key E slot
 - 1 Full-size mini-PCIe slot
 - 2 SATA-600
 - 1 M.2 Key B for USB 3.2 interface 5G module
 - Ethernet 1 x 10/100/1000 Mbps
 - Ethernet with Intel® I210-AT, supporting Wake-on-LAN and PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I219-V, supporting Wake-on-LAN and PXE Boot ROM
 - Audio HD Codec audio as MIC-in/Line-out with Realtek ALC897/888S
 - USB 2 x USB 3.2 Gen1 , 5 x USB 2.0 (Total 6 x USB at Rear)
 - Serial 2 x RS-232/422/485 at rear panel
 - Preloaded with Microsoft Window 10/ 11 Pro
 - Optional IOT Enterprise High end 64 bits / optional server OS / Linux OS
- *optional items please check with sales*

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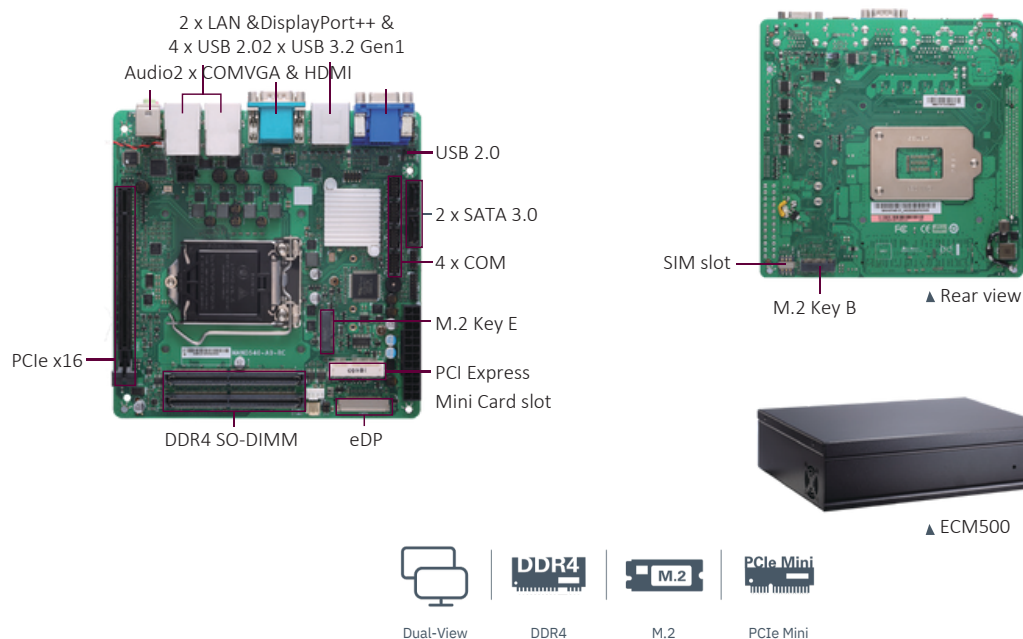
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MANO540

Mini-ITX SBC with FCLGA1200 10th Gen Intel® Core™ i9/i7/i5/i3, DisplayPort++, HDMI, VGA, eDP, USB 3.2, M.2, and Dual GbE LAN



Features

- FCLGA1200 10th gen Intel® Core™ i9/i7/i5/i3 processor
- Intel® H410 chipset
- 2 DDR4 SO-DIMM for up to 64GB memory
- 2 USB 3.2 Gen1 and 5 USB 2.0
- 6 COM port
- 1 PCIe x16 and 1 M.2 Key E slot
- 1 full-size PCI Express Mini Card slot
- 2 SATA-600
- 1 M.2 Key B for USB 3.2 & SATA interface

Specifications

Core System

CPU	FCLGA1200 10th gen Intel® Core™ i9/i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)
System Memory	2 x 260-pin DDR4-2933/2666/2400 SO-DIMM, up to 64GB
Chipset	Intel® H410
BIOS	AMI
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 1 x M.2 Key B for USB 3.2 3042/3052 5G module & SATA interface for 2242/2280 SSD 1 x M.2 Key E 2230 1 x PCIe Mini Card slot
Battery Lithium	Lithium 3V/220mAh
Power Input	Standard 12V ATX power 24+4 pin ATX connector AT Mode Auto Power Function supported

Specifications

Display Chipset	
Memory Size	Intel® integrated Gfx graphic engine
Display Interface	Share system memory
	1 x DisplayPort++ 1 x HDMI 2.0 1 x eDP 1 x VGA
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® I210-AT, supporting Wake-on-LAN and PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I219-V, supporting Wake-on-LAN and PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-out with Realtek ALC897/888S
USB	2 x USB 3.2 Gen1 5 x USB 2.0
Serial	2 x RS-232/422/485 (with +5V/+12V power) 4 x RS-232
PS/2 Combo Port	N/A
TPM	Onboard TPM 2.0 (optional)
SMBus	N/A
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)
Relative Humidity	10% to 95% relative humidity, non-condensing

ECM500, Embedded MicroBox

Construction	Heavy-duty cold-rolled steel
I/O	1 x Power button 1 x Standard Mini-ITX I/O bracket space 3 x D-Sub connector 1 x PCI Express card slot
Dimensions (W x D x H)	300 x 217.2 x 74 mm (11.81" x 8.55" x 2.91")
ECM500 (P/N: E272500101)	Embedded MicroBox for low power Mini-ITX SBC

Packing List

I/O bracket

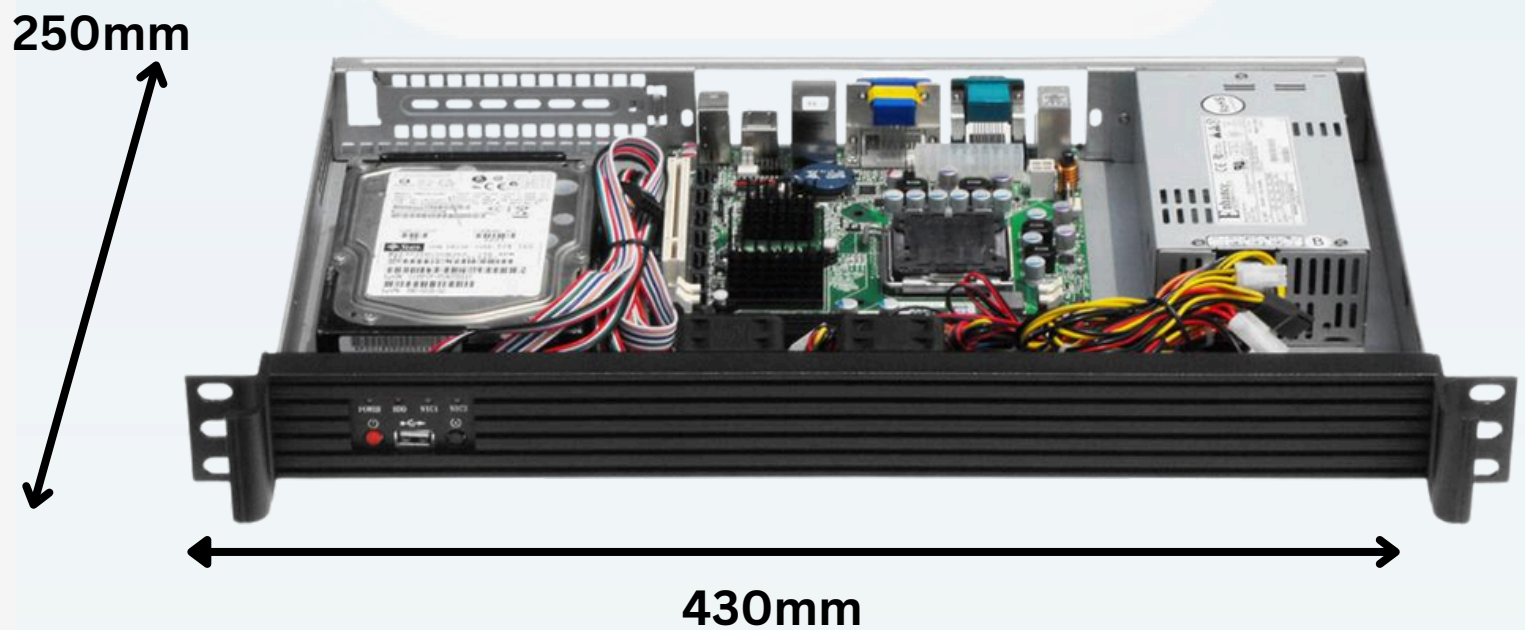
Ordering Information

Standard MANO540-H410-I210	
(P/N: E38M540104)	Mini-ITX SBC with FCLGA1200 10th gen Intel® Core™ i9/i7/i5/i3 processor, DisplayPort++, HDMI, VGA, eDP, USB 3.2, M.2 Key B, dual GbE LAN, HD Audio and bulk packing
MANO540-H410-I210	
(P/N: E38M540105)	Mini-ITX SBC with FCLGA1200 10th gen Intel® Core™ i9/i7/i5/i3 processor, DisplayPort++, HDMI, VGA, eDP, USB 3.2, M.2 Key B, dual GbE LAN, HD Audio and Single box packing
Optional	
590000039200	
594P8802810E	COM cable D-SUB9P to DuPont 2x5 P2.0 L=300 mm
71377AGC000E	USB to 1.25 mm 4-pin housing, L=150 mm
E272500101	FCLGA1200 1.5U Cooler
	ECM500, embedded MicroBox for low power Mini-ITX SBC

Features

- Designed for low power Mini-ITX SBC One 2.5" SSD/HDD supported
- Side cooling holes enhance the ventilation effect Three D-Sub connectors at the rear side

2D drawing Dimension : 430mm (W)x 250mm (D)x 45mm (H)



Ordering Information:

AX-250-1U-540-I3-8G-500GSSD 1u Industrial PC/Workstation with Core I3-13100 +8GB DDR4 Ram + 500G SSD
AX-250-1U-540-I5-8G-500GSSD 1U I PC /Workstation with Core I5-12/13500 + 8GB DDR4 Ram + 1TB SSD
AX-250-1U-540-I7-8G-500GSSD 1u Industrial PC/Workstation with Core I3-13100 +8GB DDR4 Ram + 500G SSD

OS option : Windows 10 IOT LTSC / Windows 10 PRO / Windows 11 / Ubuntu Linux

Optional input devices : SStandard keyboard and optical mouse

Optional Display : 22" / 24" / 32 " LCD monitor