



ATX Industrial Motherboard With AMD Ryzen 9000/8000/7000 Series Desktop Processors & EPYC 4004 Processors



Features

- Supports AMD Ryzen™ 9000/ 8000/ 7000 Series Desktop Processors & EPYC 4004
- 4x 288-pin DDR5 5200 UDIMM. Max. up to 192GB (Non-ECC)
- 2x Intel® I210AT, 2x Broadcom 10GbE LAN
- Dual independent displays supported: DP, HDMI
- 2x M.2 M key 2280 NVMe, 1x M.2 E key 2230
- 2x PCIe x16 Gen 5, 1x PCIe x4 (Open End), 1x PCIe x1
- 4x Dual SATA 3.0
- 6x USB 3.2 Gen 2 x1 (10Gbps), 2x USB 3.2 Gen 1 x1 (5Gbps) (2x Internal), 4x USB 2.0-Ports (Internal)
- Watchdog timer 1~255 sec. System reset
- TPM 2.0 Supported

Specifications

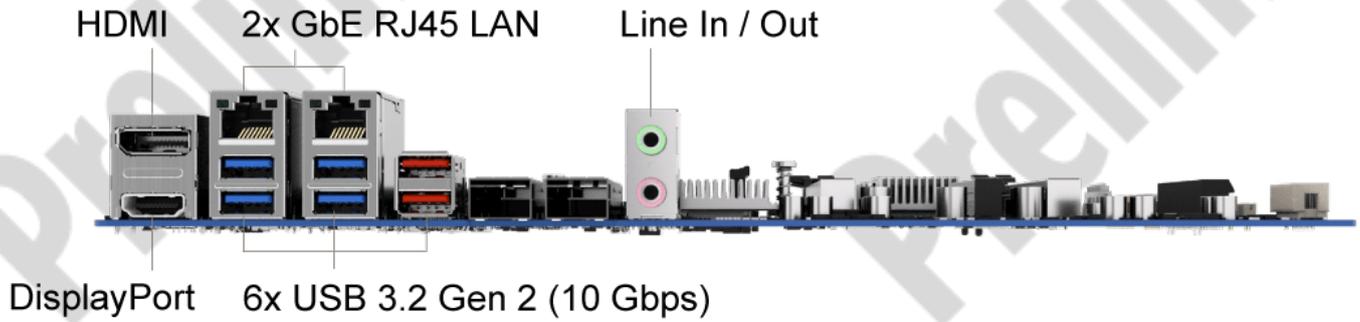
System	
Processor	<ul style="list-style-type: none"> • AMD Ryzen™ 9000/ 8000/ 7000 Series Desktop Processors • AMD EPYC 4004 Processors
System Chipset	AMD B650
LAN Chipset	LAN1/2: Intel® I210AT GbE LAN LAN3/4: Broadcom BCM57412 10GbE LAN
Audio Codec	Realtek® ALC897-VA2-CG High Definition Audio Codec
Graphics	AMD Radeon Graphics
BIOS	AMI UEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Super I/O	NUVOTON NCT6126D-S
TPM	TPM 2.0
Display	
Display Port	1x DP 1.4a up to 4096x2304 @60Hz
HDMI	1x HDMI 2.0, up to 4096 x 2160 @60Hz
Storage	
M.2	2x M.2 M Key (2280, PCIe x2) support for NVMe
Expansion	
M.2	1x M.2 E Key (2230, PCIe x1, USB 2.0) support for Wifi/Bluetooth
PCI	2 x PCIe x16 Slots Gen5/Gen4 Supported 1 x PCIe x4 open end slot 1 x PCIe x1 (PCIe x4 Slot Type)
I/O	
Audio	1x Line In / Out
Display Port	1x DisplayPort
HDMI	1x HDMI
LAN	2x 1GbE RJ45 LAN 2x 10GbE SFP + LAN
USB	6x USB 3.2 Gen 2 x1 (10Gbps) 2x USB 3.2 Gen 1 x1 (5Gbps) (2x Internal) 4x USB 2.0-Ports (Internal)
Internal I/O	
SATA	4 x Dual SATA-3.0 Ports Right Angle Connectors
USB	4x USB 2.0 Internal 2.0PH Headers
Operating System	
Windows	Windows 10/11
Linux	Ubuntu 22.04 / 24.04 LTS
Power	
Power Mode	ATX
Power Connector	1 x 24P ATX-Power Connector 1 x 8P 12V ATX-Power Connector
Mechanical Environment	
Form Factor	ATX
Operating Temperature	0°C to 60°C
Storage Temperature	-20°C to 80°C
Relative Humidity	10% to 90% (non-condensing)
Certification	CE, FCC Class B
Physical	
Dimensions	305mm x 244mm x 1.6mm

Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm

