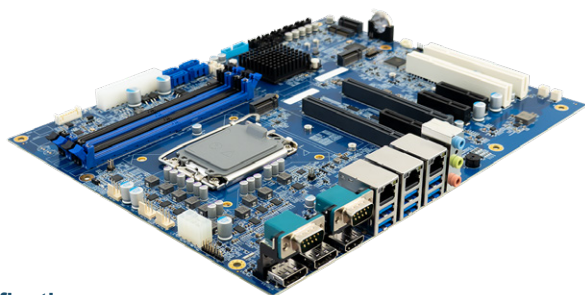


IPC-MP22409



Industrial ATX Motherboard with 14th/13th/12th Gen. Intel® Core™ Processor



Specifications

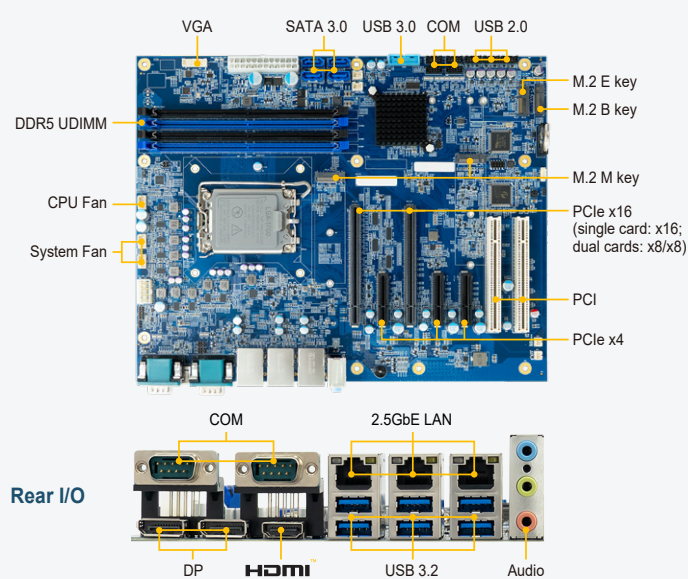
System	
CPU Support	14th/13th/12th Gen. Intel® Core™ i9/i7/i5/i3 & Pentium®/Celeron® Processors (Socket LGA1700)
CPU List	Intel® Core™ 9 Processor 273PTE/PE Intel® Core™ 7 Processor 253PE Intel® Core™ 5 Processor 223PE Intel® Core™ i9-14900/T, 13900TE/E, 12900TE/E i7-14700/T, 13700TE/E, 12700TE/E i5-14500/T, 13500TE/E, 12500TE/E i3-14100/T, 13100TE/E, 12100TE/E Pentium® G7400TE/E Celeron® G6900TE/E (TDP 35W/65W)
Chipset	Intel® R680E
Memory	4 x DDR5 UDIMM 4400MHz (up to 192GB)
Storage	4 x SATA 3.0 (6Gb/s) RAID 0/1/5 supported
Display Output	1 x HDMI™ / up to 4096 x 2160 @60Hz (Rear I/O) 2 x DP / up to 4096 x 2304 @60Hz (Rear I/O) 1 x VGA (onboard header)
BIOS	AMI UEFI BIOS
TPM	TPM 2.0
Watchdog	1~255 seconds watchdog timer selectable
FAN	2 x System Fan (4-pin header with Smart Fan function) 1 x CPU Fan (4-pin header with Smart Fan function)
Power Supply	Flex ATX 20+4 pin
Dimensions	305 x 244 mm (12" x 9.6")
Certifications	CE, FCC
O.S. Support	Windows® 11 IoT Enterprise LTSC 2024 Windows® 10 IoT Enterprise LTSC 2021 Linux (Ubuntu 22.04 LTS)
I/O Ports	
USB	6 x USB 3.2 Gen1 (Rear I/O) 1 x USB 3.0 (onboard header) 3 x USB 2.0 (onboard header)
Serial Ports	6 x COM - COM1/2 (Rear I/O): RS-232/422/485, +5V/+12V selectable by jumper - COM3/4/5/6 (onboard header): RS-232
Ethernet / Wi-Fi	3 x 2.5GbE LAN (Rear I/O) 2 x 10GbE LAN via Intel® E610-XT2 (PCIe x4 add-on card, optional) Wi-Fi via Intel® Wi-Fi 7 BE200 (M.2 add-on card, optional)
Audio	1 x Mic-in 1 x Line-in 1 x Line-out (Rear I/O)
Expansion Slots	
PCIe	2 x PCIe x16 slots (single card: x16; dual cards: x8/x8) 3 x PCIe x4 slots 2 x PCI slots
M.2	2 x M.2 2242 M key 1 x M.2 2242 B key 1 x M.2 2242 E key
Environment	
Operating Temperature	0°C~60°C (32°F~140°F) @humidity 20%~90%
Storage Temperature	-40°C~85°C (-40°F~185°F) @humidity 20%~95%



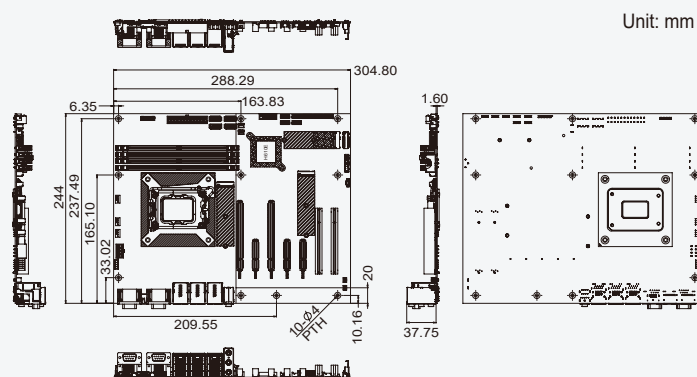
Features

- Supports 14th/13th/12th Gen. Intel® Core™ & Pentium®/Celeron® Processors
- Intel® R680E PCH
- Flexible connectivity with 2 x COM, 3 x LAN, and 6 x USB rear I/O, supporting up to 6 x COM and 12 x USB in total via onboard headers
- Versatile expansion through 5 x PCIe, 2 x PCI, and 4 x M.2 slots
- Multiple display outputs via 1 x HDMI™ and 2 x DP

I/O Connector



Dimensions



Applications

- Factory Automation
- Machine Vision
- Motion Control
- Data Acquisition
- Edge AI
- Test & Measurement



* All information contained in this document is subject to change without prior notice. Please log on www.antcomputer.com to acquire latest information. For detail mechanics drawing, please contact our sales.