



EAX-R680RP

Intel® 12/13th Gen Core™ i9/i7/i5/i3 Processor, supports LGA1700 CPU Up to 125W Max

- > Intel® 12/13th Gen Core™ i9/i7/i5/i3 Processor, supports LGA1700 CPU Up to 125W Max
- > Intel® R680E
- > 4 x 288-pin DDR4 U-DIMM socket, supports up to 128GB 3200MHz (ECC support depending on CPU)
- > 2 x Intel® i225-LM 2.5G Gigabit Controller
- > 1 x Intel® X550-AT2 10G Gigabit Controller (BOM optional)
- > 2 x DP++, 1 x HDMI
- > 4 x SATA III
- > 2 x PCIe16 slots for 1 x PCIe16 Gen5 or 2 x PCIe8 Gen5
- > 2 x PCIe4 Gen4
- > 1 x PCIe4 Gen3
- > 1 x PCIe4 slot for 1 x PCIe2 Gen3 only
- > 2 x 4-deck USB3.2 connector at I/O for 8 port USB3.2 Gen2x1
- > 1 x USB3.2 Gen1x1 Vertical Type A
- > 1 x dual-deck RJ45 for 2 x 10G LAN (BOM optional)
- > 1 x dual-deck RJ45 for 2 x 2.5G LAN
- > 2 x M.2 Key M NVMe (Gen4x4) 2242/2280/22110
- > 2 x RS232/422/485, 4 x RS232
- > Support RAID 0, 1, 5, 10

+ Spec

-System Information-	
Processor	Intel® 12th/13th Gen Core™ i9/i7/i5/i3 Processor, supports LGA1700 CPU Up to 125W Max
Platform Controller Hub	Intel® R680E
System Memory	4 x 288-pin DDR4 U-DIMM socket, supports up to 128GB 3200MHz (ECC support depending on CPU)
I/O Chipset	NCT6126D
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU temperature monitoring Voltage monitoring CPU fan speed control
TPM	Onboard NuvoTon NPCT750AADYX supports TPM 2.0
Expansion	
Expansion	2 x PCIe16 slots for 1 x PCIe16 Gen5 (default) or 2 x PCIe8 Gen5 2 x PCIe4 Gen4 1 x PCIe x4 Gen3 1 x PCIe4 slot for 1 x PCIe2 Gen3 only
Storage	
Storage	2 x M.2 Key M NVMe (Gen4x4) 2242/2280/22110 4 x SATAIII
External I/O	
USB Port	2 x 4-deck USB3.2 connector at I/O for 8 port USB3.2 Gen2x1
LAN Port	1 x dual-deck RJ45 for 2 x 10G LAN (BOM optional) 1 x dual-deck RJ45 for 2 x 2.5G LAN
I/O	
USB Port	1 x USB3.2 Gen1 Vertical Type A 5 x USB2.0
COM Port	1 x RS-232 on rear I/O 3 x RS-232 (2 of them supports RS-232/422/485) by pin header
SATA	4 x SATAIII
DIO	1 x 16-bit GPIO
Display	
Graphic Chipset	Intel® 12th/13th Generation CPU integrated
Spec. & Resolution	2 x DP (DP1.4a): Max (combined): 7680 x 4320 @60 Hz (DP++ via dongle: 1920 x 1080@60 Hz) 1 x HDMI (HDMI 2.0b): Max resolution 4K x 2K@60 (with HDR)
Multiple Display	Triple Display
Audio	
Audio Codec	Realtek ALC888
Audio Interface	1 x Mic-in, 1 x Line-out, 5.1-CH Audio.
Audio Amplifier	6W Amplifier
Reliability	
EMI Test	Class B
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Ethernet	
LAN Chipset	1 x Intel® X550-AT2 10G Gigabit Controller (BOM optional) 2 x Intel® i225-LM 2.5G Gigabit Controller
LAN Port	1 x dual-deck RJ45 for 2 x 10G LAN (BOM optional) 1 x dual-deck RJ45 for 2 x 2.5G LAN
Mechanical & Environmental	
Operating Temperature	0~55°C (32~131°F)
Storage Temperature	-40~ +75°C (-40~167°F)



Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.7kg (1.54lbs)
Power Requirement	+12V / +5V / 5VSB /+3.3V /-12V
ACPI	Single power ATX Support S0, S3, S4, S5
RAID	RAID 0, 1, 5, 10
Power Mode	AT / ATX mode Switchable Through Jumper
Dimension (L x W)	12" x 9.6" (304.8mm x 243.84mm)