



## EAX-R680P

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

- ▶ Intel® 12th Gen Core™ i9/i7/i5/i3 Processor, supports LGA1700 CPU Up to 125W Max
- Intel® R680E
- 4 DIMM Up to 128GB Dual Channel DDR4 3200MHz
- 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 Gen2
- 1 x USB3.2 Gen1 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	
<b>Processor</b>	Intel® 12th Gen Core™ i9/i7/i5/i3 Processor, supports LGA1700 CPU Up to 125W Max
<b>Platform Controller Hub</b>	Intel® R680E
<b>System Memory</b>	4 DIMM Up to 128GB Dual Channel DDR4 3200MHz
<b>I/O Chipset</b>	NCT6126D
<b>BIOS Information</b>	AMI uEFI BIOS, 256Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 5~255 seconds/5~255 minutes
<b>H/W Status Monitor</b>	CPU temperature monitoring Voltage monitoring CPU fan speed control
Expansion	
<b>Expansion</b>	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	
<b>Storage</b>	2 x M.2 Key M NVMe (Gen4x4) 2242/2280/22110 4 x SATAIII
External I/O	
<b>USB Port</b>	2 x 4-deck USB3.2 connector at I/O for 8 port USB3.2 Gen2
<b>LAN Port</b>	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	
<b>USB Port</b>	1 x USB3.2 Gen1 Vertical Type A 5 x USB2.0
<b>COM Port</b>	1 x RS-232 on rear I/O 2 x RS-232/422/485 by pin header 3 x RS-232 by pin-header
<b>SATA</b>	4 x SATAIII
<b>DIO</b>	1 x 16-bit GPIO
Display	
<b>Graphic Chipset</b>	Intel® 12th Generation CPU integrated
<b>Spec. &amp; Resolution</b>	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)
<b>Multiple Display</b>	Triple Display
Audio	
<b>Audio Codec</b>	Realtek ALC888 (colay ALC897)
<b>Audio Interface</b>	1 x Mic-in, 1 x Line-out, 5.1-CH Audio.
<b>Audio Amplifier</b>	6W Amplifier
Ethernet	
<b>LAN Chipset</b>	1 x Intel® X550-AT2 10G Gigabit Controller (BOM optional) 2 x Intel® i225-LM 2.5G Gigabit Controller
<b>LAN Port</b>	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	
<b>Operating Temperature</b>	0~55°C (32~131°F)
<b>Storage Temperature</b>	-40~ +75°C (-40~167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	0.7kg (1.54lbs)
<b>Power Requirement</b>	+12V / +5V / 5VSB /+3.3V /-12V



<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>RAID</b>	RAID 0, 1, 5, 10
<b>Power Mode</b>	AT / ATX mode Switchable Through Jumper
<b>Dimension (L x W)</b>	12" x 9.6" (304.8mm x 243.84mm)
<b>Ordering Information</b>	
<b>Ordering Information</b>	**For MOQ details, please contact w/ your sales representative** <ul style="list-style-type: none"><li>. EAX-R680P-A1R (1 x PCIe16, with dual 10G LAN)</li><li>. EAX-R680P-A1-1R (1 x PCIe16, without 10G LAN)</li><li>. EAX-R680P-A1-2R (2 x PCIe8, without 10G LAN)</li></ul>