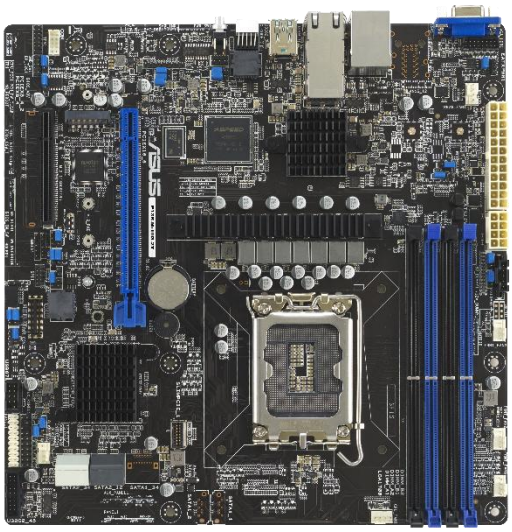
P13R-M/10G-2T

Micro ATX form factor with versatile expansions



CPU Number / 1 | Memory Number / 4 | SATA 6Gb/s ports / 6

ASUS P13R-M/10G-2T is an Intel® Catlow platform Micro ATX rack server based on Intel® C262 chipset. With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, P13R-M/10G-2T is optimized for rack placement.

FEATURE

- Intel Catlow platform Micro ATX server board
- Single LGA1700 socket
- PCI-E x16 Gen5 supported for graphic card
- 2 x GbE LAN on board support
- 1 x M.2 support
- 2 x PCIe Gen5 Expansion Slots
- Rack-optimized Design

Micro ATX compact with Highest Power Efficiency

P13R-M/10G-2T provide dual server-class Intel® Ethernet , native 6 SATA 6G, 2 x PCI Express 5.0 slots to provide advanced I/O design. The 9.6” x 9.6” micro ATX form factor can be easily integrated in short-depth chassis to greatly increase rack compute density.

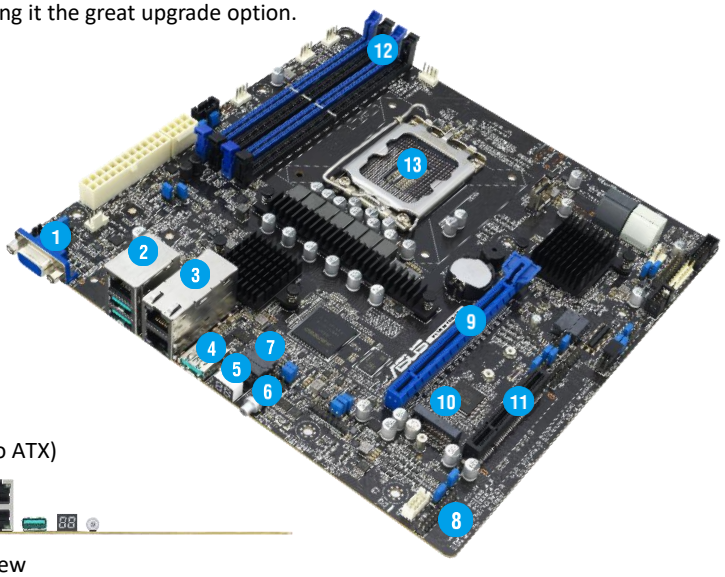
Dual on board 10G LAN

Featuring dual onboard 10G LAN ports backed by the cutting-edge Intel X710AT2 10GBASE-T Ethernet controller, P12R-M/10G-2T provides server-class connectivity that supports high-density, high-bandwidth and low-latency access-layer networks. The onboard controller negates the need to allocate a PCI Express slot to a dedicated network card, saving valuable space for other components.

Optional PIKE II 3x08 Series SAS 12Gb/s solution

ASUS PIKE II 3x08 series is the 12Gb/s SAS and PCI-E 3.0 high reliability enterprise storage solution. It meets users’ needs with support 12Gb/s SAS storage and various RAID levels data protection. Just placing the PIKE II card, P13 Series can immediately enlarge the capacity and improve the performance, making it the great upgrade option.

1. 1 x VGA port
2. 2 x USB 3.2 Gen2, 1 x Management LAN
3. 1 x Intel® X710-AT2
4. 1 x USB 3.2 Gen2
5. 1 x Q-Code/Port 80 LED
6. Rear power bottom
7. Onboard ASMB11-iKVM
8. 1 x TPM header
9. 1 x PCI-E x 16 (Gen5 x 16 link)
10. 1 x M.2 /2280/2260/2242
11. 1 x PCI-E x 8 (Gen4x 4 link)
12. 4 x DIMM slots
13. Intel® C262 Chipset



P13R-M/10G-2T
9.6" x 9.6“ (Micro ATX)

P13R-M Rear View

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P13R-M/10G-2T

SPECIFICATION

Processor Support.		1 x Socket V (LGA 1700) Intel Xeon E-2400 series processor (up to 95W) Intel Xeon 6300 series processor (up to 95W) Intel® Pentium™ processors
Core Logic		Intel® C262 PCH
Memory	**Total Slots**	4 (2-channel per CPU)
	Capacity	Maximum up to 128GB
	Memory Type	DDR5 4400/4000/3600 ECC UDIMM *Refer to ASUS server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB (UDIMM) *Refer to ASUS server AVL for the latest update
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots**	2
	Slot Type	1 x PCI-E x16 (Gen5 x16 link) 1 x PCI-E x8 (Gen5 x4 link)
Disk Controller	**SATA Controller**	Intel® C262 6 x SATA 6Gb/s ports 1 x M.2 connector (NGFF 2280/2260/2242) Intel® VROC (Windows & Linux) (Support software RAID 0, 1, 10 & 5)
	SAS Controller	Optional kits: ASUS PIKE II 3008 8-port SAS HBA card ASUS PIKE II 3108 8-port SAS HW RAID card 12G SAS Support
Networking	**LAN**	1 x Dual Port Intel X710-AT2 + 1 x Mgmt LAN
Graphic	**VGA**	Aspeed AST2600 64MB
Onboard I/O connectors	**TPM header**	1
	PSU connector	24-pin ATX power connector + 8-pin ATX 12V power connector
	Management Header	Onboard header for optional management card
	USB Connector/Header	3 x USB3.2 Gen2 (rear) 1 x USB3.2 Gen1(header, 2 ports) 1 x USB2.0 (header, 2 ports)
	Fan Header	6 x 4pin
	SMBus	1
	Chassis Intruder	1
	Serial Port Header	1
	Device Power Connector	-
	VGA Header	1
	M.2 Connector	1
Rear I/O Ports		1 x VGA port, 2 x USB3.2+1 x RJ45 Mgmt LAN port, 2 x RJ 45 10GbE LAN ports, 1 x USB 3.2 Gen2
Switch/LED		Rear Switch/LED: 1 x Q-Code/Port 80 LED, 1 x Power switch
OS Support		Please find the latest OS support from OS Compatibility Guide | ASUS Servers
Management Solution	**Software**	ASUS Control Center (Classic)
	Out of Band Remote Management	Onboard ASMB11-iKVM for KVM-over-IP
Dimension		9.6" x 9.6“ (Micro ATX)
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing) *The boundary condition above is based on 8.3W of PCH TDP spec . If the LFM estimate is higher than acceptable value from customer, ASUS can provide boundary condition with raw power for reference.

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