

P13R-E; P13R-E/10G-2T

ATX form factor with versatile expansions



P13R-E
12" x 9.6" ATX



P13R-E/10G-2T
12" x 9.6" ATX



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ASUS P13R-E series is an Intel® Catlow platform ATX server board based on Intel® C266 chipset. With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, P13R-E series is optimized for rack placement.

Target market

- Data Center Frond End Server
- SMB general purpose

Dual Intel® LAN

- Teaming quadruples the network bandwidth
- Failover ensures uninterrupted network connections
- Gigabit Ethernet or 10GbE by SKU

Comprehensive IT infrastructure management solution

- Onboard ASUS ASMB11-iKVM management module
- ASUS Control Center (ACC Classic)

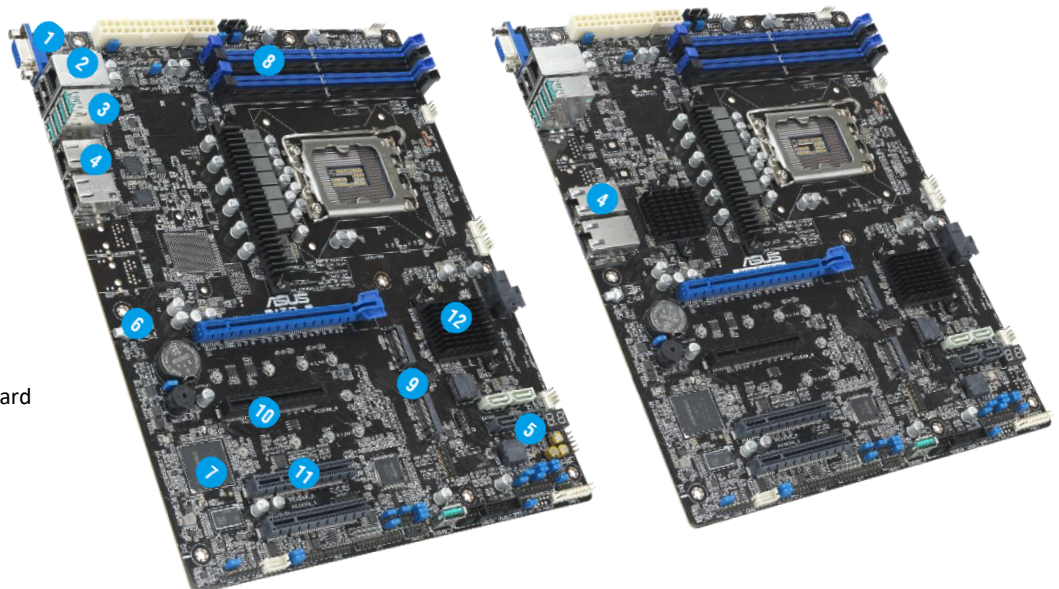
Feature

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

1. 1 x VGA port
2. 2 x USB 2.0, 1 x Management LAN
3. 4 x USB 3.2 Gen2
4. Dual Intel® server LAN (GbE or 10GbE by SKU)
5. 1 x Q-Code/Port 80 LED
6. Rear power bottom
7. Onboard ASMB11-iKVM
8. 1 x PCI-E x 16 (Gen5 x 16 link)
9. 2 x M.2 /22110
10. 1 x PCI-E x 8 (Gen4x 4 link)
11. 4 x DIMM slots
12. Intel® C266 Chipset

ATX compact with Highest Power Efficiency

P13R-E provide dual server-class Intel® Ethernet , native 8 SATA 6G, 2 x PCI Express 5.0 slots to provide advanced I/O design. The 12" x 9.6" ATX form factor can be easily integrated in short-depth chassis to greatly increase rack compute density.



P13R-E
12" x 9.6" (ATX)



P13R-E Rear View

P13R-E 10G-2T
12" x 9.6" (ATX)



P13R-E 10G-2T Rear View

P13R-E; P13R-E/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® C266 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
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	4
	Slot Type	1 x PCI-E x8 (Gen4 X4 Link) 1 x PCI-E x8 (Gen4 X4 Link) 1 x PCI-E x8 (Gen5 X8 Link) 1 x PCI-E x16 (Gen5 X16 Link), Auto switch to x8 link if slot 4 is occupied
Disk Controller	SATA Controller	Intel® C266 8 x SATA 6Gb/s ports 2 x M.2 connector (NGFF 22110)
Networking	LAN	2 x Intel® I210-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	-
	USB Connector/Header	1 x USB3.2 Gen1 (header, 2 ports) 4 x USB 3.2 Gen2 (rear) 2 x USB 2.0 (rear)
	Fan Header	6 x 4pin
	SMBus	1
	Chassis Intruder	1
	Serial Port Header	-
	Device Power Connector	-
	VGA Header	1
	M.2 Connector	2
Rear I/O Ports		1 x VGA port, 4 x USB3.2+1 x Mgmt LAN port, 2 x GbE LAN port, 2 x USB 2.0
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		12" x 9.6" (ATX)
Environment		Operation temperature: 10°C ~ 50°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.