

# P12R-M

## Micro ATX form factor with versatile expansions



ASUS P12R-M is an Intel® Tatlow platform Micro ATX rack server based on Intel® C252 chipset. With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, P12R-M is optimized for rack placement.

### FEATURE

- Intel Tatlow platform Micro ATX server board
- Single LGA1200 socket
- PCI-E x16 Gen4 supported for graphic card
- 2 x GbE LAN on board support
- 1 x M.2 support
- 2 x PCIe Gen4 Expansion Slots
- Rack-optimized Design

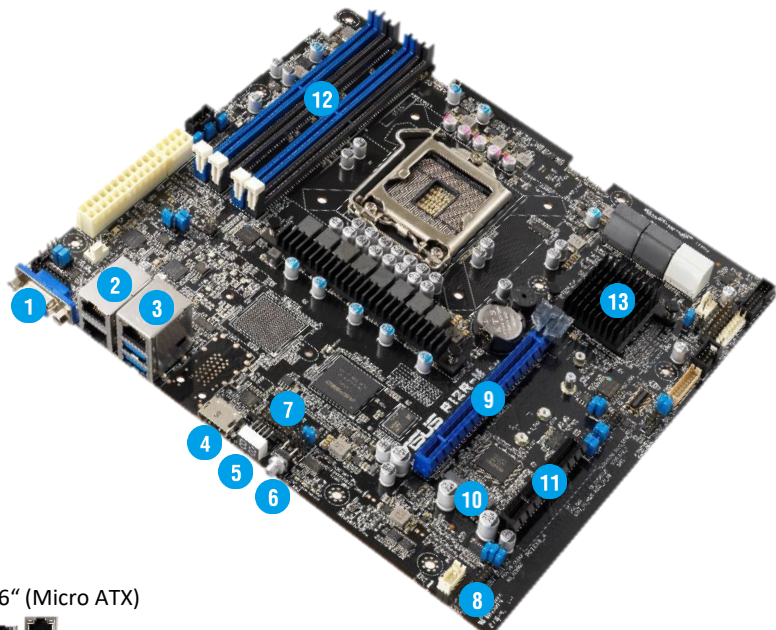
### Micro ATX compact with Highest Power Efficiency

P12R-M provide dual server-class Intel® Ethernet , native 6 SATA 6G, 2 x PCI Express 4.0 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.

### 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, P12 Series can immediately enlarge the capacity and improve the performance, making it the great upgrade option.

1. 1 x VGA port
2. 2 x Intel® I210-AT
3. 2 x USB 3.2 Gen2, 1 x Management LAN
4. 1 x HDMI port
5. 1 x Q-Code/Port 80 LED
6. Rear power bottom
7. Optional ASMB10-iKVM
8. 1 x TPM header
9. 1 x PCI-E x 16 (Gen4 x 16 link)
10. 1 x M.2 /2280/2260/2242
11. 1 x PCI-E x 8 (Gen4 x 4 link)
12. 4 x DIMM slots
13. Intel® C252 Chipset



P12R-M  
9.6" x 9.6" (Micro ATX)



P12R-M Rear View

# P12R-M

# SPECIFICATION

<b>Processor Support.</b>		1 x Socket H5 (LGA 1200) Intel® Xeon® E processors (95W) Intel® Pentium™ processors
<b>Core Logic</b>		Intel® C252 PCH
<b>Memory</b>	<b>Total Slots</b>	4 (2-channel per CPU)
	<b>Capacity</b>	Maximum up to 128GB
	<b>Memory Type</b>	DDR4 3200/2933/2666 ECC UDIMM *Refer to ASUS server AVL for the latest update
	<b>Memory Size</b>	32GB, 16GB, 8GB, 4GB (UDIMM) *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	2
	<b>Slot Type</b>	1 x PCI-E x16 (Gen4 x16 link) 1 x PCI-E x8 (Gen4 x4 link)
<b>Disk Controller</b>	<b>SATA Controller</b>	Intel® C252 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)
	<b>SAS Controller</b>	Optional kits: ASUS PIKE II 3008 8-port SAS HBA card ASUS PIKE II 3108 8-port SAS HW RAID card 12G SAS Support
<b>Networking</b>	<b>LAN</b>	2 x Intel® I210-AT + 1 x Mgmt LAN
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Onboard I/O connectors</b>	<b>TPM header</b>	1
	<b>PSU connector</b>	24-pin ATX power connector + 8-pin ATX 12V power connector
	<b>Management Header</b>	Onboard header for optional management card
	<b>USB Connector/Header</b>	2 x USB3.2 Gen2 (rear) 1 x USB3.2 Gen2(header, 2 ports) 1 x USB2.0 (header, 2 ports)
	<b>Fan Header</b>	6 x 4pin
	<b>SMBus</b>	1
	<b>Chassis Intruder</b>	1
	<b>Serial Port Header</b>	1
	<b>Device Power Connector</b>	-
	<b>VGA Header</b>	1
	<b>M.2 Connector</b>	1
<b>Rear I/O Ports</b>		2 x USB3.2 Gen2, 1 x VGA port, 1 x VGA port, 2 x GbE LAN ports, 1 x RJ45 Mgmt LAN port
<b>Switch/LED</b>		Rear Switch/LED: 1 x Q-Code/Port 80 LED, 1 x Power switch
<b>OS Support</b>		Please find the latest OS support from <a href="https://www.asus.com/event/Server/OS_support_list/OS.html">https://www.asus.com/event/Server/OS_support_list/OS.html</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	Optional ASMB10-iKVM for KVM-over-IP
<b>Dimension</b>		9.6" x 9.6" (Micro ATX)
<b>Environment</b>		Operation temperature: 10°C ~ 50°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% ( Non condensing)