

AMD EPYC™ 7003 1U dual-socket server that supports up to 32 DIMM, one dual-slot GPU (GPU SKU), 12 NVMe, 3 PCIe 4.0 slots, OCP 3.0, M.2 and ASMB10-iKVM



Processor / System Bus

2 x Socket SP3 (LGA 4094)

AMD EPYC™ 7003 Series

AMD EPYC™ 7002 Series

Max TDP : 280W

3rd Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology

Generation

E11

Total Slots :

32 (8-channel per CPU, 16 DIMM per CPU)

Capacity :

Maximum up to 4096GB per socket

Memory Type :

Dual Channel DDR4 3200/2933 RDIMM

Memory

Dual Channel DDR4 3200/2933 LRDIMM

Dual Channel DDR4 3200/2933 LR-DIMM 3DS non ECC

Memory Size :

64GB, 32GB, 16GB RDIMM

128GB, 64GB LRDIMM

256GB, 128GB, 64GB LR-DIMM 3DS

* Refer to support page for more information

Up to 3 x Expansion slots + 1 x Internal PIKE slot

1 x PCIe Gen4 x16, FHFL (CPU1)

Expansion Slots

1 x PCIe Gen4 x16, FHFL or OCP3.0 (CPU2)

1 x PCIe Gen4 x8 or x16, LP (if PCIe M.2 in use, it will operate at x8 link) (CPU2)

*Installing GPU cards will occupied expansion slots.

Storage Controller :

12 x SATA3 6Gb/s ports (SATA 6Gb/s & PCIe® Gen4 x4 link)

2 x M.2 connector(2242/2260/2280/22110) both SATA & PCIe mode

Storage**SAS Controller :**

ASUS PIKE II 3008-8i 8-port SAS 12G RAID card(Optional)

ASUS PIKE II 3108-8i 8-port SAS 12G HW RAID card(Optional)

Broadcom MegaRAID 9560-16i (Optional)

Drive Bays

12 x 2.5" hot-swap drive bays (12 x NVMe/SATA/SAS*)

2 x M.2 (support SATA/PCIe M.2) (up to 22110) (CPU2)

*must with PIKE/RAID card

System Fan

8

Option 1

1 x Quad Port Intel I350-AM4 1G LAN Controller + 1 x Mgmt LAN

or

Networking

Option 2

1 x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller + 1 x Mgmt LAN

or

None x + 1 x Mgmt LAN

Graphic

Aspeed AST2600 with 64MB VRAM

Multi-GPU Support

Please find the latest GPU support from <https://servers.asus.com/support/gpu>

Rear I/O Ports

2 x USB 3.2 Gen1 ports

1 x VGA port

1 x RJ-45 Mgmt LAN port

1 x OCP3.0 port (Please remember to insert OCP3.0 Board)

Switch/LED

Front Switch/LED:

1 x Power switch (w/LED)

1 x Reset Switch

1 x Location Switch (w/LED)

1 x HDD Access LED

1 x Message LED LAN 1-4 LED (on NIC Module)

Rear Switch/LED:

1 x Power switch w/LED

1 x Port 80 LED(Q-Code)

1 x Location Switch w/LED

1 x Message LED

OS Support

Please find the latest OS support from <https://servers.asus.com/support/os>

Management Solution

On-Board ASMB10-iKVM for KVM-over-IP

ASUS Control Center Enterprise (Optional)

Regulatory Compliance

BSMI, CE, FCC(Class A)

Dimensions

842.5mm x 449mm x 43.85mm (33.17" x 17.68" x 1.73")

Form Factor

1U

Weight	Net Weight : 18.85KG
	Gross Weight : 23.89KG

Power Supply	1+1 Redundant 1200W/1600W 80 PLUS Platinum Power Supply
	Rating: 100-127/200-240Vac,9.4A/4.72A (x2) ,50/60Hz Class I (240Vdc, 4.6A Only for China) *1600W RPSU is required while choosing GPU SKU

Environment	Operation temperature: 10°C ~ 35°C
	Non operation temperature: -40°C ~ 60°C
	Non operation humidity: 20% ~ 90% (Non condensing)

Optional Items	Standard Cooling Solution or
	Water Cooling Solution

Note	*If only 1 CPU is installed, some functions might be not available.
	* SAS support only from SAS HBA/RAID Card

CPU Heatsink/ Cooler	2
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Fan	1 (For supporting GPU SKU, it will have external fan)
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- The information contained is general testing result for reference. Please consult local sales representative for more information on specific supported CPU list on each system.
- * Optional means "built for order".