

VANTAGEO 12T1

Flexible, Scalable, and Secure



- Dual AMD EPYC™ 9004/9005 in a compact 1U for high-density performance.
- 24 DDR5 DIMMs up to 6400MT/s for massive memory bandwidth.
- 12 hot-swap U.2 NVMe bays for ultra-fast storage.
- PCIe 5.0 x16 slots for future-ready expansion.
- IPMI/Redfish, dedicated management, Dual BIOS & BMC for reliability.

1U 12Bay AMD EPYCTM 9005 General Server

This 1U dual-socket server is built for high-density performance in modern data centers, powered by AMD EPYC™ 9004/9005 processors on the SP5 platform. With 24 DDR5 DIMM slots supporting up to 6400MT/s, it delivers exceptional memory bandwidth for virtualization, databases, and data-intensive workloads.

The system features 12 hot-swap 2.5" U.2 NVMe bays for ultra-fast storage performance and two PCIe 5.0 x16 slots for next-generation expansion. Integrated dual 10G SFP+ networking via OCP 3.0 ensures high-speed connectivity, while the ASPEED AST2600 controller with IPMI and Redfish provides advanced remote management.

Overview

- Dual Socket SP5, supports AMD EPYC™ 9004/9005 series processors
- (24) DDR5 DIMM Slots, 1DPC, upto 6400MT/s, RDIMM/RIMM-3DS
- (12) Hot-swap 2.5" front drive bays support U.2 PCIe 4.0 NVMe
- (2) PCIe 5.0 x16 expansion slots
- (2) 10G SFP+ Ethernet Ports (Intel® X710-BM2) through OCP3.0 NIC OCP-321
- (1) 1000Base-T Dedicated Server Management Port
- ASPEED AST2600 with IPMI & DMTF Redfish Support
- Dual BIOS and BMC

Applications

- Cloud Computing Service
- Content Delivery Network
- Network Function Virtualization

Technical details

Processor	Dual AMD socket SP5 supporting AMD EPYC™ 9005/9004 Series processors, up to TDP 210W
Memory	(24) DDR5 DIMM Slots, 12 channels (1DPC), RDIMM/RIMM-3DS - Max. Frequency 6400MT/s - Max. Capacity per DIMM: RDIMM: 96GB/RDIMM-3DS: 256GB
Expansion Slots	Riser 1: (1) PCIe 5.0 x16 slot from CPU0 supports HHHL PCIe card Riser 2: (1) PCIe 5.0 x16 slot from CPU1 supports HHHL PCIe card Riser 4: (1) PCIe 3.0 x16 slot from CPU1 supports HHHL PCIe card
Networking	(2) 1000Base-T Ethernet Ports (Intel® I350AM2) (S1206-01 SKU)
Storage	(12) Hot-swap 2.5" drive bays support U.2 PCIe 4.0 NVMe (2) M.2 2280 PCIe3.0 x2 ports from CPU0
Server Management	AST2600 with dual BMC supports IPMI and Redfish (1) 1000Base-T Dedicated Server Management Port Dual BIOS and BMC, (1) MicroSD card slot for BMC log
Security	(1) TPM header with SPI interface supports TPM2.0
Front I/O	(12) Hot-swap 2.5" drive bays (1) USB 3.0 Type-A port (1) USB 2.0 Type-A port (1) System Power LED button (1) UID LED button (1) Reset button (4) Status LEDs: Fault/LAN/M.2
Rear I/O	(2) 1000Base-T Ethernet ports (S1206-01 only) (1) 1000Base-T Dedicated Server Management port (2) USB 3.0 Type-A port (1) VGA D-Sub port (1) COM RJ45 port (1) UID LED button
Power Supply	(1+1) Redundant 1300W CRPS 80+ Platinum
Dimensions (W x H x D)	438mm (17.2") Wx 43.2mm (1.7") Hx 770mm (30.3") D
Environmental	System Operating Temperature: 0°C ~ 35°C Non-operating Temperature: -20°C ~ 70°C Non-operating Relative Humidity: 5% to 85% (non-condensing)

Recommended support

24x7 - 4 hours Response, Next Business Day Call to Resolution CTR
24x7 - 4 hours Response, 24 Hours Call to Resolution CTR
24x7 - 4 Hours Response, 6 Hours Call to Resolution CTR
Default support Next Business Day Consulting and deployment offerings are also available. Contact Vantageo representative for the more information.

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