

J421E-S

High Performance AMD[®] EPYC[™] Zen 5 2U Single Socket MHS Rackmount Server

Elevate your most demanding workloads with a modern platform designed specifically to power your artificial intelligence (AI), Machine learning (ML), high performance computing (HPC), and Fintech workloads. With high performance expandability and flexibility in mind, this MHS platform will transform your operations above the competition.

REMARKABLE PERFORMANCE

Featuring the highest core counts in the AMD[®] portfolio (up to 192 cores) and latest technologies like PCIe Gen5, DDR5, CXL, NVMe, and confidential computing security features, our platform helps you unlock unparalleled energy efficiency and customized innovations.

- AMD[®] EPYC[®] Zen 5 processor microarchitecture optimized to meet diverse performance and efficiency requirements across HPC, cloud scale up, and workloads where leading FLOP density is critical.
- Effective single processor limits power consumption and reduces energy costs while providing the I/O and compute power necessary to handle data-intensive tasks.
- Supports the latest high performance SmartNICs and FPGA accelerators at PCIe Gen5 speed without switches in the I/O path for the lowest latency possible.
- SAS/SATA/NVMe SSD options offering reduced latency and increased IOPs to unlock the full performance capabilities of today's processors.
- Modular Hardware System (MHS) compliance standardizes interfaces and Host Processor Module (HPM) form factors to deliver consistent interoperability among modular building blocks and platforms.
- Datacenter-ready Secure Control Module (DC-SCM v2.0) moves common server management features from the HPM to a modular designed form factor for easy interoperability, configurability, and flexibility.



VERSATILE EXPANDABILITY

This server combines different configurations of NVMe, SAS or SATA drive slots and a wide array of network and storage controller connectivity to fit whatever your application needs. It offers:

- Up to 24x small form factor (SFF) front drives
- Up to 6x FHFL PCIe Gen5 add-in card slots and 2x OCP 3.0 PCIe Gen5 slots

FEATURES

- Scalable for high performance or cost savings
- Power redundancy for failure-free operation
- Ample memory capacity and speed
- High performance and energy efficient operation with next generation AMD[®] processors
- Security options safeguarding platform integrity
- Toolless chassis
- Redfish API support
- MHS compliant
- DC-SCM v2.0 BMC module
- Collaborative solutions and customized innovation with deep engineering engagement

Contact your [Jabil Sales Representative](#) for more information.

SPECIFICATIONS

CHASSIS

Form Factor	2U Rackmount
Model	J421E-S (SFF)

DIMENSIONS

W x H x L	<ul style="list-style-type: none"> • 448mm x 87mm x 815mm • 17.64" x 3.43" x 32.09"
Weight	<ul style="list-style-type: none"> • L6: Approx. 16.7kg (36.8lbs) • L10: Approx. 30.2kg (66.5lbs)

PROCESSOR

CPU	<ul style="list-style-type: none"> • 1x AMD® EPYC™ Zen 5 SP5 processor • Supports CPU TDP up to 500W
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SYSTEM MEMORY

Memory Capacity	Up to 24x DDR5 slots: 12 channels
Memory Type	<ul style="list-style-type: none"> • DDR5-5200 1DPC/4400 2DPC RDIMM • Up to 6TB max memory (256GM RDIMM) • Up to 9TB max memory (384GB 3DSRDIMM)

ON-BOARD DEVICES

BMC	<ul style="list-style-type: none"> • ASPEED AST2600 • IPMI 2.0 with virtual media over LAN, and KVM-over-LAN support • DC-SCM 2.0 • Redfish supported
Network Controllers	<ul style="list-style-type: none"> • 1x Intel® i210 1GbE RJ45 (via IOM) • 1x Dedicated BMC Management 1GbE RJ45 (via DC-SCM)
RAID	<ul style="list-style-type: none"> • RAID boot module • PCIe add-in card SAS/SATA/NVMe support
Security	<ul style="list-style-type: none"> • Trusted Platform Module (TPM) 2.0 • Hardware Root of Trust (NIST SP 800-193 compliant) • Intrusion Detection kit • AMD® Secure Memory Encryption (SME) and SEV-SNP support

ADDITIONAL I/O

Rear USB	<ul style="list-style-type: none"> • 2x USB 3.2 Gen 1 Type A (1x via DC-SCM) • 1x USB 3.2 Gen 1 Type A (Optional IO module) • 1x USB Type C UART (DC-SCM)
Rear Additional	<ul style="list-style-type: none"> • UID Button/LED (DC-SCM) • 1x Mini DisplayPort (DC-SCM)

Warranties and Limitation of Liability

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FRONT I/O

Buttons	<ul style="list-style-type: none"> • Power Off/On • UID
LEDs	<ul style="list-style-type: none"> • UID • Power Status • System Health • Network Activity
USB	2x USB 3.2 Gen 1 Type A

EXPANSION SLOTS

PCIe Mechanical	<ul style="list-style-type: none"> • 6x FHFL PCIe card expansion slots Or • 3x double-wide FHFL GPU PCIe card expansion slots • 2x OCP 3.0 slots
PCIe Electrical	<ul style="list-style-type: none"> • 3x dual-slot riser PCIe connectors with x8 or x16 Gen5 for rear I/O • 1x OCP NIC 3.0 PCIe w/x16 Gen5 • 1x OCP NIC 3.0 PCIe w/x8 Gen5 or IOM (i210 LAN) • 8x SFF-TA-1016 MCIO x8 NVMe connectors each for front storage

DRIVE OPTIONS

Toolless Hot swap Drives	Up to 24x 2.5" SFF 24G SAS/6G SATA/PCIe Gen5 NVMe hybrid
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SYSTEM COOLING

Fans	N+1 fan redundancy, 6x hot swappable, 6056 dual rotor
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POWER SUPPLY

1600W/2000W CRPS 1+1 redundant, Titanium level, hot swappable, toolless PSUs

Input	<ul style="list-style-type: none"> • 1600W: 200-240Vac, 10A, 50/60Hz • 2000W: 220-240Vac, 10A, 50-60Hz
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OPERATING ENVIRONMENT/COMPLIANCE

<ul style="list-style-type: none"> • Operating Temp • Storage Temp • Operating Relative Humidity • Storage Relative Humidity 	<ul style="list-style-type: none"> • 10°C - 35°C (50°F to 95°F) • -40°C to 60°C (-40°F to 140°F) • 8% ~ 80% • 5%~ 95%
Compliance/Regulatory	RoHS, FCC, UL, CE

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