

J312-S

High Performance 4th Gen Intel® Xeon® Dual Socket 1U Rackmount Server

Tackle your most demanding storage requirements with a versatile server platform offering NVMe, SAS, and SATA drives for hot pluggable hybrid storage. This 1U dual socket server brings you flexibility, scalability, and reliable performance to support a variety of applications.

REMARKABLE PERFORMANCE

Featuring flexible storage capacity, processing power, and PCIe Gen5 and DDR5 memory, this server maximizes data center performance and efficiency and is ideal for high-performance, solution-based computing.

- NVMe SSDs offer high-speed, reduced latency and increased IOPs to unlock the full performance capabilities of today's processors.
- SAS 4 (24G) and/or NVMe PCIe Gen5 (32GT/s) interfaces increases data throughput over the previous generation.
- 4th Generation Intel® Xeon® Scalable processor micro architecture offers superb power efficiency, impressive graphics performance, data integrity protection, and proven reliability for evolving customer expectations. This means better response time for more applications running simultaneously with increased total performance.

VERSATILE EXPANDABILITY

The J312-S server combines different configurations of NVMe, SAS, or SATA drive slots to expand with your needs, and offers:

- Up to 24x small form factor (SFF) front drives
- 2x internal M.2 NVMe slots
- Up to 2x PCIe Gen5 add-in card slots and an OCP 3.0 PCIe Gen5 slot for OCP type NIC/storage allows for a wide array of network and storage controller connectivity into the server to fit your application needs.
- Scalability up to 32x DDR5 DIMM slots enables you to increase server memory and speed for growing application demands.



FEATURES

- Scalable for high-performance or cost savings
- Power redundancy for failure-free operation
- Increased memory capacity and speed
- Security options safeguarding platform integrity
- Toolless chassis
- Hot pluggable NVMe/SAS/SATA drives
- Improved performance with SAS 4 and Gen5 PCIe/NVMe
- Redfish API support

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

SPECIFICATIONS

CHASSIS

| | |
|-------------|--------------|
| Form Factor | 1U Rackmount |
| Model | J312-S (SFF) |

DIMENSIONS

| | |
|-----------|--|
| W x H x L | <ul style="list-style-type: none"> • 482.9mm x 43.5mm x 795.7mm • 19" x 1.71" x 31.3" |
| Weight | <ul style="list-style-type: none"> • L6: Approx. 12.43kg (27.4lbs) • L10: Approx. 22kg (48.5lbs) |

PROCESSOR

| | |
|-----|---|
| CPU | <ul style="list-style-type: none"> • 2x 4th Generation Intel® Xeon® • Scalable processors • Supports CPU TDP up to 225W • Up to 3 UPI |
|-----|---|

SYSTEM MEMORY

| | |
|-----------------|---|
| Memory Capacity | Up to 32x DDR5 slots: 8 channels/16 slots per channel |
| Memory Type | Up to DDR5-5600 ECC RDIMM, up to 8TB max memory |

ON-BOARD DEVICES

| | |
|---------------------|---|
| Chipset | Intel® C741 Chipset |
| BMC | <ul style="list-style-type: none"> • ASPEED AST2600 • IPMI 2.0 with virtual media over LAN, and KVM-over-LAN support • Redfish supported |
| Network Controllers | <ul style="list-style-type: none"> • 1x host 1GbE RJ45 • 1x dedicated BMC 1GbE RJ45 |
| RAID | <ul style="list-style-type: none"> • VROC 8.0 NVMe RAID support • PCIe add-in card NVMe/SAS/SATA support |
| Security | <ul style="list-style-type: none"> • Trusted Platform Module (TPM) 2.0 • Intel® PFR 3.0 • Intrusion Detection kit (optional) |

ADDITIONAL I/O

| | |
|-----------------|---|
| Rear USB | <ul style="list-style-type: none"> • 2x USB 3.0 • 1x USB-C (BMC-UART) |
| Rear Additional | <ul style="list-style-type: none"> • UID Button/LED • 1x Mini DisplayPort |

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 • Power Fault |
| USB | <ul style="list-style-type: none"> • 1x USB 3.0 • 1x USB 2.0 |

EXPANSION SLOTS

| | |
|-----------------|--|
| Expansion Slots | <ul style="list-style-type: none"> • 2x toolless PCI card expansion slots • 1x FHFL • 1x HHHL • 1x OCP NIC 3.0 slot |
| PCIe Electrical | <ul style="list-style-type: none"> • 3x PCIe riser connectors with x16 Gen5 for rear I/O • 1x OCP NIC 3.0 PCIe w/x16 Gen5 • 2x MCIO cable CNs w/x16 PCIe Gen5 each for front storage or rear I/O • 8x MCIO cable CNs w/x8 PCIe Gen5 each for front storage or rear I/O |

DRIVE OPTIONS

| | |
|--------------------------|--|
| Toolless Hot Swap Drives | Up to 12x 2.5" SFF 24G SAS/6G SATA/PCIe Gen5 NVMe hybrid |
| Boot Drives | 2x M.2 NVMe |

SYSTEM COOLING

| | |
|------|---|
| Fans | N+1 fan redundancy, 8x toolless, dual rotor |
|------|---|

POWER SUPPLY

| | |
|--|--|
| 1300W Titanium and Platinum level CRPS 1+1 Redundant, hot swappable, toolless PSUs | |
| Input | <ul style="list-style-type: none"> • 1300W: 220~240Vac/8A/50/60Hz |

ADDITIONAL I/O

| | |
|--|--|
| <ul style="list-style-type: none"> • Operating Temp • Non-Operating Temp • Operating Relative Humidity • Non-Operating Relative Humidity | <ul style="list-style-type: none"> • 10°C - 30°C (50°F to 95°F) • -40°C to 60°C (-40°F to 140°F) • 5%~90% • 5% ~ 95% |
| Compliance/Regulatory | RoHS, FCC, UL, CE |

Warranties and Limitation of Liability

This document provided by Jabil is provided "as is" without warranties of any kind, whether express or implied, including but not limited to implied warranties of merchantability, fitness for a particular purpose, and non-infringement. Jabil has made every effort to include accurate and timely information about its products and services. However, Jabil has not made and does not make any warranties or representations as to its accuracy or completeness. Jabil assumes no liability or responsibility for any errors or omissions in this document. When you use such Jabil information, you are doing so at your own risk and you expressly understand and agree that under no circumstances shall Jabil be liable for any direct, indirect, incidental, special, consequential or exemplary damages resulting from your use of this document.

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