

## J311-S

### Versatile 4th Gen Intel® Xeon® Single Socket 1U Rackmount Server

Tackle your most demanding compute requirements with a versatile server platform offering NVMe, SAS, and SATA drives for hot pluggable hybrid storage. This powerful and efficient single socket server brings you flexibility and reliable performance in an affordable 1U form factor.

#### REMARKABLE PERFORMANCE

Featuring impressive processing power, PCIe Gen5, and DDR5 memory, and flexible storage capacity, this server provides cost-effective but powerful choices for Cloud and Enterprise workloads.

- 4<sup>th</sup> Generation Intel® Xeon® Scalable processor microarchitecture offers superb power efficiency, data integrity protection, and proven reliability for evolving customer expectations.
- SAS/SATA/NVMe SSD options 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.
- Datacenter Modular Hardware Systems (DC-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) board moves common server management features from the HBM to a modular designed form factor for easy interoperability, configurability, and flexibility.
- Effective single processor limits power consumption and reduces energy costs while providing the I/O and compute power necessary to handle data-intensive workloads.



#### 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 your application needs. It offers:

- Up to 12x 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

#### FEATURES

- Scalable for high-performance or cost savings
- Power redundancy for failure-free operation
- Increased memory capacity and speed
- Security options safeguarding platform integrity
- Redfish API support
- Toolless chassis
- Hot pluggable NVMe/SAS/SATA drives
- Improved performance with SAS-4 & Gen5 PCIe/NVMe storage options
- DC-MHS compliant
- DC-SCM v2.0 BMC module

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

## SPECIFICATIONS

### CHASSIS

Form Factor	1U Rackmount
Model	J311-S (SFF)

### DIMENSIONS

W x H x L	<ul style="list-style-type: none"> <li>• 438.5mm x 42.8mm x 794.4mm</li> <li>• 17.26" x 1.69" x 31.27"</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• L6: Approx. 13.7kg (30.2lbs)</li> <li>• L10: Approx. 18.8kg (41.44lbs)</li> </ul>

### PROCESSOR

CPU	<ul style="list-style-type: none"> <li>• 1x 4th Generation Intel® Xeon® Scalable processor</li> <li>• Supports CPU TDP up to 350W</li> </ul>
-----	--

### SYSTEM MEMORY

Memory Capacity	Up to 16x DDR5 slots: 8 channels/16 slots
Memory Type	DDR5-5600 ECC RDIMM, up to 4TB max memory

### ON-BOARD DEVICES

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

### ADDITIONAL I/O

Rear USB	<ul style="list-style-type: none"> <li>• 2x USB 3.0</li> <li>• 1x USB-C (BMC-UART)</li> </ul>
Rear Additional	<ul style="list-style-type: none"> <li>• UID Button/LED</li> <li>• 1x Mini DisplayPort</li> <li>• 1x Dedicated BMC Management RJ45</li> </ul>

#### 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.

### FRONT I/O

Buttons	<ul style="list-style-type: none"> <li>• Power Off/On</li> <li>• UID</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>• UID</li> <li>• Power Status</li> <li>• System Health</li> <li>• Network Activity</li> </ul>
USB	2x USB 3.0

### EXPANSION SLOTS

PCIe Mechanical	<ul style="list-style-type: none"> <li>• 2x PCI card expansion slots <ul style="list-style-type: none"> <li>• 1x FHHL</li> <li>• 1x HHHL</li> </ul> </li> <li>• 1x OCP 3.0 slot</li> </ul>
PCIe Electrical	<ul style="list-style-type: none"> <li>• 2x riser PCIe connectors with x16 Gen5 for rear I/O</li> <li>• 1x OCP NIC 3.0 PCIe w/x16 Gen5</li> <li>• 4x MCIO cable connectors w/x16 PCIe Gen5 each for front storage or rear I/O</li> </ul>

### 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 CRPS 1+1 Redundant, hot swappable, toolless PSUs

Input	1300W: 220~240Vac/10A/50-60Hz
-------	-------------------------------

### OPERATING ENVIRONMENT/COMPLIANCE

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