

J312-S Fintech Server

Precision Time Measurement, High Performance, Low Latency, 5th Gen Intel® Xeon Dual Socket 1U Rackmount Server

Tackle your most demanding fintech needs with a purpose-built server platform offering NVMe, SAS, and SATA hot pluggable storage and customizable high speed, low-latency I/O options. This 1U dual socket server brings you flexibility, scalability, and reliable performance to support time synchronization sensitive applications in the financial services industry.

REMARKABLE PERFORMANCE

Featuring low latency, high speed PCIe Gen5, DDR5 memory and CXL 1.1, 5th Gen Intel Xeon processing power, and flexible storage capacity, this server maximizes datacenter performance and efficiency for fintech applications.

- 5th Generation Intel® Xeon® (Emerald Rapids) Scalable processor microarchitecture offers superb power efficiency, data integrity protection, and proven reliability for evolving customer expectations. This means better response time for more applications running simultaneously with increased total performance.
- Precision Time Measurement (PTM) optimized motherboard to meet the exacting demands of the financial services industry (FSI), achieving CPU and applications synchronization with nanosecond precision.
- Supports the latest high performance smartNICs, and FPGA accelerators at PCIe Gen5 speed without retimers or expanders in the I/O path for the lowest latency possible.
- NVMe PCIe Gen5 and SAS 4 (24G) SSD options offering high-speed, reduced latency and increased IOPs to unlock the full performance capabilities of today's processors.
- Intel® VROC NVMe RAID and Hardware RAID options available
- Precision Time Measurement (PTM) optimized
- Scalable for high-performance, low-latency workloads, or cost savings
- Security options safeguarding platform integrity
- Customizable BIOS & application optimization tuning
- Improved performance with Gen5 PCIe/ NVMe and CLX 1.1
- Redfish API support
- Low Latency SmartNics and accelerator options

VERSATILE EXPANDABILITY

The J312-S is a highly configurable server providing many different configurations of network adapters, accelerators, NVMe, SAS, or SATA SSD drive slots to expand with your needs, and offers:

- Up to 12x small form factor (SFF) front SSD drives
- 2x internal M.2 NVMe slots
- 2x PCIe Gen5 add-in card slots and an OCP 3.0 PCIe Gen5 slot allows for a wide array

SPECIFICATIONS

CHASSIS

Form Factor	1U Rackmount
Model	J312-S

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)

MOTHERBOARD

PTM Optimization	<ul style="list-style-type: none"> • 2x TGPIO ports for PTM • Ability to set signal direction (input,
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