J322-S Fintech Server

Precision Time Measurement, HighPerformance, Low Latency, 5th Gen Intel® Xeon Dual Socket 2U 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 2U 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 (Emerald Rapids) Intel® Xeon® 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.

VERSATILE EXPANDABILITY

The J322-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 24x small form factor (SFF) front SSD drives

- 2x internal M.2 NVMe slots

- 6x PCIe Gen5 add-in card slots and an OCP 3.0 PCIe Gen5 slot allows for a wide array of network, accelerator, and storage controller connectivity into the server to fit a wide array of fintech workload needs.

- Configured to order with Xilinx® XtremeScale™ ethernet adapters, Alveo™ data center accelerators, and Napatech SmartNICs.

FEATURES

- 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 CLX1.1

- Redfish API support

- Low Latency SmartNics and accelerator options

Contact your Jabil Sales Representative for configuration options and technical details

SPECIFICATIONS

CHASSIS

Form Factor	2U Rackmount
Model	J322-S

DIMENSIONS

W x H x L	• 447.4mm x 87.1mm x 787.4mm • 17.61" x 3.42" x 31"
Weight	• L6: Approx. 17kg (37.47lbs) • L10: Approx. 30kg (66lbs)

MOTHERBOARD

PTM Optimization	• 2x TGPIO ports for PTM • Ability to set signal direction (input, output) independently for each TGPIO port

PROCESSOR

CPU	• 2x 5th Generation Intel® Xeon® (Emerald Rapids) • Scalable processors • Supports CPU TDP up to 385W • Up to 3 UPI

SYSTEM MEMORY

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

ON-BOARD DEVICES

Chipset	Intel® C741 Chipset
BMC	• ASPEED AST2600 • IPMI 2.0 with virtual media over LAN, and KVM-over-LAN support • Redfish supported
Network Controllers	• 1x host 1GbE RJ45 • 1x dedicated BMC 1GbE RJ45
RAID	• VROC 8.0 NVMe RAID support • PCIe add-in card NVMe/SAS/SATA support
Security	• Trusted Platform Module (TPM) 2.0 • Intel® PFR 3.0 • Intrusion Detection kit (optional)

REAR I/O

USB	• 2x USB 3.0 • 1x USB-C (BMC-UART)
Rear Additional	• UID Button/LED • 1x Mini DisplayPort

FRONT I/O

Buttons	• Power Off/On • UID
LEDs	• UID • Power Status • System Health • Network Activity • Power Fault
USB	• 1x USB 3.0 • 1x USB 2.0

EXPANSION SLOTS

Network Adapter options	• Xilinx® Alveo™ U55C Data Center Accelerator • Xilinx® XtremeScale™ X2522 dual port SFP28 10/25GbE • Xilinx® XtremeScale™ X2541 single port SFP28 10/25/40/50/100GbE • Napatech NT100A01 quad port SFP28 1/10/25GbE • Napatech NT200A02 dual port QSFP28 10/25/100GbE

DRIVE OPTIONS

Toolless hot swap drives	Up to 24x 2.5" SFF 24G SAS/6G SATA/PCIe Gen5 NVMe hybrid SSDs
Boot Drives	2x M.2 NVMe

SYSTEM COOLING

Fans	N+1 fan redundancy, 6x toolless, dual rotor

POWER SUPPLY

1600W/2000W Titanium and Platinum level CRPS 1+1 Redundant hot swappable, toolless PSUs

Input	• 1600W: 220~240Vac/10A/50/60Hz • 2000W: 220~240Vac/10A/50/60Hz

ADDITIONAL I/O

• Operating Temp • Non-Operating Temp • Operating Relative Humidity • Non-Operating Relative Humidity	• 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

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