



Increase readiness. The RS1.532L21X2F 1.5U rugged server delivers proven reliability and computing performance in extreme and unpredictable environments — critical for successful execution of combat, sonar and electronic warfare applications across all domains, including cyber.

The smaller, integrated footprint of the unit fits easily into standard rack slots. With system availability, superior cooling and shock/vibe resistance, this 1.5U rugged server stands ready to perform.

Lives are on the line. Reliability matters. Warfighters achieve dominance with accurate, real-time information—which requires failsafe computer hardware that works in any conditions. That's why all Crystal Group products are engineered and tested to meet or exceed strict MIL-SPEC standards.

In addition, our unsurpassed thermal performance uses custom heatsinking solutions and special air management techniques. Likewise, we meticulously fuse the unique GPU and networking capabilities with the latest Intel® Xeon® Scalable processors to deliver secure, near-zero latency at the tactical edge.

Combat-proven solutions you can trust. Fielding more than 15,000 servers for the U.S. Navy, Crystal Group solutions have demonstrated unmatched fielded reliability of greater than 99 percent. Key to our consistency is having the full design, development, testing and manufacturing team in-house. Using the latest COTS technologies for ease and speed of upgrades and reconfigurations, we're able to deliver customized solutions that meet the unique needs of any program on time and on budget.

Industry-leading support. Crystal Group's expert team and global network provide fast, effective product support around the clock and around the globe. With in-house or onsite technical assistance, industry-leading five-plus-year warranties and exceptional service, you can depend on Crystal Group as a strategic partner, dedicated to your success.

FEATURES

- Rugged 1.5U, 21" deep rack mounted Dual Node, front I/O server
- Lightweight aluminum construction – 28-32 lbs.
- Shared 1500W power supply, operates off 110/220V 50/60Hz AC or 180-350VDC
- Dense SWAP capability with 2 dual socket motherboards per chassis
- 2nd Gen Intel Xeon Scalable processors up to 125W each
- Four removable U.2 NVME SSDs
- Four low profile HHHL PCIe x16 slots, plus 2x SIOM modules with up to 8 ports of network connectivity per chassis
- 4X USB 3.0, 2x VGA, 2X Gigabit IPMI

A clear advantage.

Specifications

Chassis Height: 1.5U, 2.63" (6.67 cm) Width: 17.5" (44.45 cm) Depth: 21" (53.34cm) Weight: 28-32lbs (12.7-14.5kg) I/O and airflow: Front I/O, front to rear airflow	Environmental Standards MIL-STD-810, Operational Temperature: -40°C to +55°C* ¹ MIL-STD-810, Storage, Method 501, Procedure I/II: -40°C to +85°C ¹ MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with conformal coating ¹ MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport ¹ MIL-STD-810, Shock, Method 516, Procedures I/V: 6g, 11msec--functional shock; 20g, 11msec crash hazard shock ¹ MIL-STD-810, Vibration, Method 514, Procedure I: 2Grms, 5-2,000Hz, 60 min/axis, 3 axis ¹ MIL-STD-167-1A, Vibration, Type 1 ¹
CPU Intel® CPU architecture options from Intel embedded long-life roadmap Up to 22 cores per socket (2 sockets per node, 4 total) up to 125W each, 2nd Gen Intel Xeon Scalable Processors	Electromagnetic Compatibility Standards MIL-STD-461, RE102, CE102 compliant ¹
Expansion 2x PCIe x16 HHHL low profile cards per node (4 total), 1x Supermicro SIOM card per node (2 total)	Software Compatibility Accepts Windows 10®, Windows Server, VMware® or Linux®
Storage 2x U.2 NVMe SSD per node (4 total)	Cooling Seven high speed, high volume fans
Memory 16GB to 3TB DDR4 ECC RDIMM/LRDIMM per node (2 nodes)	Export Compliance ECCN: 5A992A Classification is dependent on configuration and is subject to change. Please contact your program manager to receive the classification for your product.
Power Supply Single 1500W power supply shared by both nodes. Operates on 90-264V AC (50/60Hz) or 180-350VDC input	
System Board 2x X11DPT-PS dual socket 2nd Gen Intel Xeon Scalable processors	



For further information or pricing, please contact us:

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* +55C temperature assumes use of lower power CPUs, expansion cards, and SSDs
1 - Designed to meet standard

Certification reports for select products are available on Crystalrugged.com. Crystal Group designs all products to meet or exceed the specifications listed herein. Due to the numerous models and component combinations, some configurations are still being tested. Please contact your Crystal Group program manager for test data on desired requirements.



Technology
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Platinum 2020

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