

Crystal Group RS41110L21 Rugged 4U Server



Field tested, fail-safe and long-life performance in extreme conditions. As processing performance continues to improve, Crystal Group is dedicated to minimize the SWaP envelope of the RS41110L21. High-end computing performance in a 4U chassis with a depth of 20.7" (52.6 cm) fits most any rack space.

Our rugged servers provide high-performance computing and high-capacity data storage in a rugged, all-aluminum package able to withstand the roughest terrains and toughest applications. We provide a broad range of military and indusrial programs with integrated solutions for everything from communications and networking to weapons control, sensor and surveillance, and unmanned aircraft systems. The RS41110L21 provides optimizied value for end users in DSP, SIGINT, C4ISR, and radar applications.

Innovative solutions. Crystal Group's portfolio of rugged and industrial computing products are engineered and tested to withstand challenging environments, meet and exceed military and industrial standards, and provide the latest COTS technologies to best manage cost, availability, upgradability, and flexibility.

Dependable services. When your computing application requires a custom solution, we deliver with a full range of vertically integrated services, including product design and development, testing, systems engineering and integration, mechanical and electrical engineering, configuration management, and product life-cycle planning.

Dedicated support. Our expert staff and global network provide fast and effective product support when and where it is needed. Count on Crystal Group for fast response times, quick turnarounds, 5+ year warranties, and quality service around the clock and around the globe.

FEATURES

- Rugged 4U, rack-mounted 20.7" depth
- Aluminum construction 51-55 lbs.
- Up to 4TB of DDR4 memory
- 1200W AC power supply

- Versatility with 10 modular SSD bays for up to 20 SSDs
- Designed for two high-powered GPGPUs operating at 50°C
- Expandable with 11 PCle slots
- Intel® Xeon® Scalable processors

A clear advantage.



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Specifications

Mechanical 4U

Height: 7.0" (17.8 cm)

Width: 17.5" (44.45 cm) EIA-310 rack compliant

Depth: 20.7" (52.6 cm)

Weight: 51-55 lbs. (23.1 - 24.9 kg), content dependent

CPU

Intel® CPU architecture options from their embedded long-life roadmap

Dual socket Intel® Xeon® Scalable processors

Expansion

Eleven PCIe expansion slots

External Bay

Ten Crystal Group FORCE expansion bays, up to 20x SSD or other FORCE accessory modules

Memory

32GB - 4TB DDR4 RDIMM/LRDIMM

Mounting

Crystal glides or Jonathan rails

Power Supply

1200W 120/240VAC 50/60Hz

Environmental Standards

MIL-STD-810, Operational Temperature, Method 501, Procedure I/II: -30°C to +50°C1

MIL-STD-810, Storage, Method 501, Procedure I/II: -40°C to +85°C1

MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with conformal coat

MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport¹

MIL-STD-810, Vibration, Method 514, Procedure I: 2 GRMS, 5-2,000Hz, 60 min/axis1

MIL-S-901, Grade B1

Electromagnetic Compatibility Standards

AC, FCC compliant1

AC, MIL-STD-461, RE102, CE102 compliant¹

Cooling

Seven high-speed, high-volume fans; speed controlled

Software Compatibility

Supports Windows 10®, Windows Server, VMware®, or Linux®

System Board

Supermicro X12DPG-QT6



1 - Designed to meet standard; Testing in progress

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