

Crystal Group RS379L24 Rugged 3U 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 RS379L24. High-end computing performance in a 3U chassis with a depth of 24" (61 cm) fits most any rack space.

Crystal Group 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. Crystal Group's highly customizable Rugged Servers are used by the U.S. Armed Forces, Foreign Military, Power Distribution, Autonomous Vehicles, Oil & Gas, and others for everything from communications and networking to weapons control, sensor and surveillance, and unmanned aircraft systems.

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 and benefits, such as cost, availability, upgradability, and flexibility.

Dependable services. When a computing application requires a custom solution, Crystal Group delivers — on time and on budget — with professional services, including product design and development, testing, systems engineering and integration, mechanical and electrical engineering, configuration management, and product lifecycle planning.

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

FEATURES

- Light weight aluminum construction 50-56 lbs.
- Easily mounted on Delrin glides, fixed mount, or Jonathan[®] rails
- Up to 196 GB of memory
- Rugged 3U, rack mounted 24" depth
- Versatility support for up to eight removable 3.5" HDDs and three 2.5" SSDs
- Expandable with seven full height slots
- Intel® Xeon® processors

A clear advantage.



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Specifications

Mechanical 3U

Height: 5.25" (13.34 cm)

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

Depth: 24" (61 cm)

Weight: 50-56 lbs. (28-31 kg) [content dependent]

CPU

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

Intel® Xeon® Scalable processors

Up to 28 Cores per socket

Expansion

Up to seven full-height slots; combination is configuration dependent

External Bay

Eight drive bays supporting single 3.5" HDDs or three 2.5" SSDs per bay. One 2.5" only drive bay supporting up to three 2.5" SSDs

Memory

32GB - 196GB DDR4

Mounting

Option 1: Mounted on Delrin glides

Option 2: Fixed mount, front and rear

Option 3: Jonathan rails

Power Supply

Option 1: 1200W 120/240VAC 1+1 w/PFC

Option 2: 1005W 18-36VDC

Environmental Standards

MIL-STD-810, Operational Temperature, Method 501, Procedure I/II: -25°C to +55°C, capable of -40°C to 60°C with select processors¹

MIL-STD-810, Storage, Method 501, Procedure I/II: -55°C to +85°C1

MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit1

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

MIL-STD-810, Vibration, Method 514, Procedure I: 1.5 GRMS, 5-2,000Hz, 60 min/axis with solid state drives + vibration kits¹

Electromagnetic Compatibility Standards

Some standards may require an internal kit

AC, FCC compliant¹

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

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

RTCA DO-160 Section 21, Category M1

Cooling

Five high speed, high volume fans CPU temperature controlled

Software Compatibility

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

System Board

Modular motherboard approach supports multiple motherboards including Advantech ASMB-586, ASMB-815, and ASMB-825



1 - Designed to meet standard

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