Field tested, failsafe and long life performance in extreme conditions. As processing performance continues to improve, Crystal Group is dedicated to minimize the SWaP envelope of the RS4704S18. High-end computing performance in a 4U chassis with a depth of 18" (45.7cm) 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. The RS4704S18 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 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

- Aluminum construction — 43 lbs.
- Easily mounted on Delrin glides, fixed mount, or Jonathan® rails
- Up to 192 GB of memory
- Rugged 4U, rack mounted 18" depth
- 1200W 1+1 AC power supply

- Versatility with up to 12 2.5" SSD SATA or SAS drives
- GPGPU ready
- Expandable with four x16 and two x8 PCIe slots
- Intel® Xeon® Scalable processors

A clear advantage.

Specifications

Mechanical 4U

Height: 7.0" (17.8 cm)
Width: 17.5" (44.45 cm) EIA-310 Rack Compliant
Depth: 18" (45.7 cm)
Weight: 43 lbs. (19.50 kg)

CPU

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

Intel® Xeon® Scalable processors

Expansion

Four PCIe 3.0 x16, two x8

External Bay

Up to 8x SAS/SATA

Memory

16 - 192GB

Mounting

Jonathan rails or Crystal Glides

Power Supply

1200W 120/240VAC 50/60Hz w/PFC, 1+1 redundant, 115VAC 400Hz

System Board

Advantech ASMB-825

Environmental Standards

MIL-STD-810, Operational Temperature, Method 501, Procedure I/II: -15°C to +55°C[1]
MIL-STD-810, Storage, Method 501, Procedure I/II: -55°C to +85°C[1]
MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit[1]
MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport[1]
MIL-STD-167-1 Vibration
MIL-S-901, Grade B[1]

Electromagnetic Compatibility Standards

FCC compliant

Cooling

High speed, high volume fans (4) CPU temperature controlled

Software Compatibility

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

1 - Designed to meet standard

AS9100D CERTIFIED
ISO 9001