



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 RS373S17. High-end computing performance in a 3U chassis with a depth of 17" (43.2 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 – 26 lbs.
- Easily mounted – Delrin glides, fixed mount, or Jonathan® rails
- Up to 512 GB of memory
- Rugged 3U, rack mounted 17" depth
- Versatility with three (3) removable 3.5" HDD or six (6) 2.5" SATA or SAS bays
- Expandable with seven (7) full height slots
- Leading edge Intel® Haswell or Broadwell CPU options
- Optional optical drive

A clear advantage.

Specifications

Mechanical 3U

Height: 5.25" (13.34 cm)
Width: 17.5" (44.45 cm) EIA-310 rack compliant
Depth: 17" (43.2 cm)
Weight: 26 lbs. (11.79 kg) [content dependent]

CPU

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

Haswell or Broadwell LGA2011 R3, X10DRL-I or X10SRL-F

Dual, Quad, Hexa, Deca or Dodeca Core options

Expansion

Up to seven (7) full-height slots; combination is configuration dependent

External Bay

Option 1: Three (3) removable SATA or SAS 2.5" or 3.5" HDD

Option 2: Six (6) 2.5" SATA or SAS HDDs

Option 3: (can be combined with HDD option): One (1) CD/DVD/BD (R/W)

Memory

16-512 GB DDR4 (motherboard dependent)

Mounting

Option 1: Mounted on Delrin glides

Option 2: Fixed mount, front and rear

Option 3: Jonathan rails

Power Supply

Option 1: 600W 120/240VAC 50/60Hz w/PFC, 115VAC 400Hz

Option 2: 1005W 18-36VDC

System Board

Option 1: X10DRL-I, Dual LGA2011 R3 Xeon®, ATX, 2LAN1000, VGA, 5 PCI-E X8, 1 PCI-E X16, IPMI, IPKVM, SATA3X10

Option 2: X10SRL-F, Single LGA2011 R3 Xeon®, ATX, 2LAN1000, VGA, 2 PCI-E X16, 5 PCI-E X8, IPMI, IPKVM, SATA3X10

Environmental Standards

MIL-STD-810, Operational Temperature, Method 501, Procedure I/II: -15°C to +50°C, capable of -40°C to 71°C with select processors²

MIL-STD-810, Storage, Method 501, Procedure I/II: -55°C to +85°C²

MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit²

MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport²

MIL-STD-810, Vibration, Method 514, Procedure I: 4.63 GRMS, 5-2,000Hz, 60min/axis with solid state drives + vibration kits²

MIL-S-901, Grade A w/ solid state drives and shock kit²

MIL-S-901, Grade B²

Electromagnetic Compatibility Standards

Some standards may require an internal kit

AC, FCC compliant¹

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

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

RTCA DO-160 Section 21, Category M

Export Compliance

ECCN: 5A992

Classification is dependent on configuration and is subject to change. Please contact your Business Development Manager to receive the classification for your product.

Cooling

High speed, high volume fans (6) CPU temperature controlled

Software Compatibility

Accepts Windows 10®, Windows Server 2012®, Windows Server 2016®, VMware®, or Linux®



Metromatics

For further information or pricing,
please contact Metromatics

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1 - Test report available

2 - Designed to meet standard

Certification reports for select products are available on Crystalrugged.com. Crystal Group designs all servers to meet or exceed the specifications listed herein. Due to the sheer number of models and combinations of components (memory, CPU, peripheral cards, hard drives), it is not practical to test every combination of servers offered. Please ask your Crystal Business Development Manager for data on qualification testing for configurations similar to the desired configuration for your application.

AS9100C:2009 and ISO 9001:2008 Certified QMS



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