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TECHNOLOGY GROUP

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CRYSTAL SPECS

RS252S13/17 Rugged 2U Rugged Crystal Servers



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 RS252S13/17. High-end computing performance in a 2U chassis with a depth under 17" (43.1 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 – 18 to 25 lbs.
- Easily mounted– Delrin glides, fixed mount, or Jonathan® rails
- Up to 512 GB of memory
- Rugged 2U, rack mounted, short depth 13" or 17"
- Versatility with two (2) removable 3.5" drives or four (4) removable 2.5" drive bays
- Expandable with five (5) slots
- Leading edge Intel® Sandy Bridge, Ivy Bridge, Haswell or Broadwell CPU options

A clear advantage.

800.378.1636 | info@crystalrugged.com | crystalrugged.com | 850 Kacena Rd., Hiawatha, IA 52233

CRYSTAL SPECS

RS252S13/17 Rugged 2U Rugged Crystal Servers

Specifications

Mechanical 2U

Height: 3.5" (8.89 cm)

Width: 17.5" (44.45 cm) EIA-310 Rack Compliant

Depth: 13" or 17" (33.02 cm or 43.2 cm)

Weight: 18-25 lbs. (9-14.5 kg) [excludes vibration kit mods]

CPU

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

Option 1: Sandy Bridge or Ivy Bridge LGA1155, X9SAE-V

Option 2: Haswell or Broadwell LGA2011, X10SRL-F or X10DRL-I

Dual, Quad, Hexa, Octa, Deca, or Dodeca Core options (dependent on motherboard)

Expansion

Five (5) low profile slots; combinations are configuration dependent

External Bay

Option 1: Two (2) removable SATA or SAS 2.5" or 3.5" HDD

Option 2: Four (4) 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 DDR3 or 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: 460W 120/240VAC 50/60Hz w/PFC, 115VAC 400Hz

Option 2: 505W 18-36VDC

System Board

Option 1: X9SAE-V, Single LGA1155, Xeon®, i3/5/7, ATX, 2LAN1000, VGA, 2XHDMI, AUDIO, 1 PCI, 2 PCI-E X1, 1 PCI-E X4, 1 PCI-E X8, 2 PCI-E X16, SATAX4, SATA3X2

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

Option 3: 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 501/502 Procedure I/II: -15°C to +55°C, -40°C to +71°C with select processors[2]

MIL-STD-810, Storage, Method 501, Procedure I/II: -55°C to +85°C[2]

MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit[2]

MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport[2]

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

MIL-S-901, Grade B[2]

MIL-S-901, Grade A: With solid state drives + shock kits[2]

Electromagnetic Compatibility Standards

Some standards may require an internal kit

AC, FCC Compliant

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

Seven (7) high speed, high volume fans 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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sales@metromatics.com.au
www.metromatics.com.au

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

intel Technology Provider Platinum 2017

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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We're here to make your life easier. How can we help you today?

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