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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 RS112S17. High-end computing performance in a 1U chassis with a depth of 17" (43.18 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 – 7 to 15 lbs.
- Full processor performance to +55°C
- Rugged 1U, rack mounted 17" depth
- Versatility with two 2.5 SSD's
- Expandable with PCIe X16 slot
- Intel® Xeon® D series processors

A clear advantage.

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Specifications

Mechanical 1U

Height: 1.75" (4.45 cm)

Width: 16.5" (41.91cm)

Depth: 17" (43.18 cm)

Weight: 7-15 lbs. (3.18-6.80 kg)

CPU

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

Intel® Xeon® D-1500 series processor

Expansion

One full height half-length PCIe x16 slot

Memory

Up to 128 GB DDR4

External Bay

Option 1: Six removable SATA SSDs or HDDs

Option 2: Four removable SATA SSDs or HDDs

Option 3: CAC Reader (can exist with half the number of hard drive options)

Option 4: 1x M.2 SATA/PCIe 3.0x4, non-removable (can exist with any other option)

Mounting

Option 1: Mounted on Crystal glide rails

Option 2: Fixed mount, front and rear

Power Supply

460W 120/240VAC 50/60Hz w/PFC, 115VAC 400Hz

Environmental Standards*

MIL-STD-810, Operational Temperature, Method 501/502 Procedure I/II: -30°C to +50°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-810, Vibration, Method 514, Procedure I: 2 GRMS, 5-2000Hz, 60 min/axis with solid state drives

MIL-STD-810, Shock, Method 516, Procedures I/V: 20g, 11msec–functional shock; 40g, 11msec crash hazard shock[1]

MIL-S-901, Grade B[1]

MIL-STD-167-1[1]

Electromagnetic Compatibility Standards

AC, FCC Compliant

AC, RE102, CE102 compliant

Cooling

Thermally controlled high-volume fans

Software Compatibility

Supports Windows 10® or Linux®

System Board

X10SDV-16C-TLN4F, Xeon D-1587, up to 128GB DDR4 DIMM, 6x SATA 3, 2x 10GBE, VGA graphics, IPMI, 2x USB 3.0 rear, 1x USB 2.0 Front

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For further information or pricing, please contact us:

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1 - Designed to meet standard; Testing in-process

AS9100D CERTIFIED
ISO 9001

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