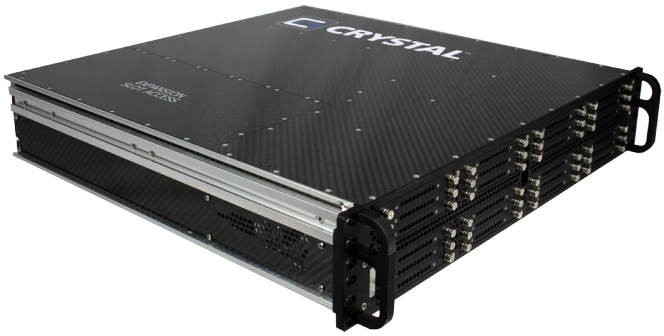
CRYSTAL SPECS

RS2616PS18
Crystal Carbon Fiber Server



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 RS2616PS18. High-end computing performance in a 2U chassis with a depth of 20" (50.8cm) fits most any rack space.

Crystal Group combines 30 years of server experience with advanced carbon-fiber and coating technologies to deliver its innovative Rugged Carbon Fiber Server product line. An ultra-lightweight chassis providing EMI/EMC protection and shock and vibration resilience make Crystal Group Carbon Fiber Servers a popular choice for airborne, shipboard, land-based, and transit case 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

- Light weight carbon fiber construction – 20-30 lbs. Easily mounted – Delrin glides or Jonathan® rails
- Up to 512 GB of memory
- Rugged 2U, rack mounted 18" depth
- Large storage capacity - up to 24 – 2.5" drives
- Expandable with Six (6) low profile slots
- Leading edge Intel® Sandy Bridge, Ivy Bridge, Haswell or Broadwell CPU options

A clear advantage.

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Specifications

Mechanical 2U

Height: 3.5" (8.89 cm)

Width: 17.5" (44.45 cm) [accepts Crystal Slides and Jonathan Rails] EIA-310 Rack Compliant

Depth: 20" (50.8 cm)

Weight: 20-30 lbs. (9.07-13.60 kg) content dependent

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

Six (6) low profile, 3/4 length slots; motherboard dependent

External Bay

Option 1: Sixteen (16) 2.5" 5-9.5mm removable drives

Option 2: Twenty-four (24) 2.5" 5-9.5mm removable drives

Memory

8-512 GB DDR3 or DDR4 (motherboard dependent)

Mounting

Option 1: Mounted on Delrin glides

Option 2: Jonathan rails

Power Supply

Option 1 X9SAE-V: 460W 120/240VAC W/PFC, 115VAC 400Hz

Option 2 X9SAE: 505W 18-36VDC

Option 3 X10SRL-F & X10DRL-I: 600W 120/240VAC 50/60Hz w/PFC, 115VAC 400Hz

Option 4 X10SRL-F & X10DRL-I: 1005W 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, +71°C option, with select CPUs; -40°C operational with temperature kit and SSD[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, 5-2000Hz, 60 min/axis with solid state drives + vibration kits[2]

MIL-STD-167-1A, Type 1[1]

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[2]

AC, MIL-STD-461, RE102, CE102 compliant[2]

DC, MIL-STD-461, RE102, CE102 compliant[1]

RTCA DO-160 Section 21, Category M[2]

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®

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.

intel Technology Provider Platinum 2017

AS9100C:2009 and ISO 9001:2008 Certified QMS

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Custom solutions. Superior performance.

Contact Crystal Group:
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