



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 IS100. High-end computing performance in a 1U chassis with a depth under 20" (51.11cm) fits most any rack space.

Crystal Group's Industrial Servers are designed for industrial and commercial applications that require high-performance computing and high-capacity data storage in a system built to last. IS servers are powerful and compact with rugged, all-aluminum chassis construction and state-of-the-art thermal management for demanding applications and harsh environments. Crystal Group's Industrial Servers meet emission, military, and industrial standards, while packing superior performance in a compact, economical, and environmentally friendly package.

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– 14.8 - 18.6 lbs.
- Easily mounted on ball bearing slides
- Up to 256 GB of Memory
- Industrial 1U, 20" depth
- Front power switch with LED and HDD activity lights
- Leading edge Intel® Sandy Bridge, Ivy Bridge, Haswell or Broadwell CPU options
- Modular design allows for easy reconfiguration and versatility

A clear advantage.

Specifications

Mechanical 1U
Height: 1.75" (4.45 cm)
Width: 16.93" (44.45 cm) EIA-310 Rack Compliant
Depth: 20" (51.11 cm)
Weight: 14.8 - 18.6 lbs. (6.7 - 8.4 kg)

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 LGA 2011, X10SRL-F
Dual, Quad, Hexa, Octa, Deca, or Dodeca Core options (dependent on motherboard)

Expansion
One (1) full-height, 3/4 length slot

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
8-256 GB DDR4

Mounting
EIA rack mounted slides: Mounted on ball bearing slides

Power Supply
Option 1: 460W 110/240 VAC w/ PFC
Option 2: 18-36 VDC

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, SATA3X2
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: -10°C to +50°C, -40°C operational with SSD, capable of -40°C to +71°C with select processors
MIL-STD-810, Storage, Method 501, Procedure I/II: -30°C to +75°C
MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit
MIL-STD-810, Altitude, Method 500: 10,000ft operation, 20,000ft transport
MIL-STD-810, Vibration, Method 514, Procedure I: 1.5 GRMS, 5-500Hz, 75 min/axis
MIL-STD-810, Shock, Method 516, Procedures I/V: 20g, 11msec; 3 axes, each direction

Electromagnetic Compatibility Standards
FCC Class A

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®



For further information or pricing,
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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

