



850 Kacena Rd., Hiawatha, IA 52233 Ph. 319-378-1636  
AS9100 Certified QMS

**The MOST TRUSTED provider of computer architecture for operational, deployable, and high-reliability applications**



Performance, Reliability, Scalability, and Longevity

- ☑ Light weight aluminum construction—14.8 - 18.6 lbs., Easily mounted on ball bearing slides
- ☑ Industrial 1U, 20" depth
- ☑ Leading edge Intel® Sandy Bridge, Ivy Bridge, or Haswell CPU options
- ☑ Up to 512 GB of Memory
- ☑ Front power switch with LED and HDD activity lights
- ☑ Modular design allows for easy reconfiguration and versatility

### Distinctively Customized

We can set you apart from the competitors. Crystal Group has a specialized in-house design team that will help customize your server, giving you a competitive advantage in the industrial world. Private labeling and drop shipping are available to facilitate a rapid, more convenient deployment directly to your end customers.

### Propelling Productivity

Technology is a must in today's world. It assists in extending the quality of life, creating jobs, opening doors for communication, and speeding up production to meet consumer demands. The IS100 server can be built quickly and efficiently in order to reach your consumers when they want and need it.

### High Reliability at a Fraction of the Cost

Innovative packaging techniques and attention to the important details makes our product run cooler and perform at wider temperature extremes. Crystal Group's design approach limits weight. We provide incredible processing power, in a thermally enhanced package, with exceptional life at a fraction of the cost.

### A Company that Listens to You!

We don't simply sell computers, we provide solutions. That means our focus is on helping you meet your individual needs. We are fast, flexible, and responsive. We guarantee you will never work with a more customer- focused company.

**CONTACT A CRYSTAL GROUP BUSINESS DEVELOPMENT MANAGER AT:  
800.378.1636 / [info@crystalrugged.com](mailto:info@crystalrugged.com) / [crystalrugged.com](http://crystalrugged.com)**



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### 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 LGA 2011, X9DRL-IF  
Option 2: Sandy Bridge or Ivy Bridge LGA 1155, X9SAE-V  
Option 3: Haswell 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

8-512 GB DDR3 or DDR4 (motherboard dependent)

### 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: X9DRL-IF, Dual LGA2011 Xeon®, ATX, 2LAN1000, VGA, 1 PCI 3.3V, 4 PCI-E X8, 1 PCI-E X1, IPMI, IPKVM, SATARAIDX8, SATA3X2  
Option 2: 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 3: X10SRL-F, Single LGA2011 R3 Xeon®, ATX, 2LAN1000, VGA, 2 PCI-E X16, 5 PCI-E X8, IPMI, IPKVM, SATA3X10

### Testing Standards\* see [www.crystalrugged.com](http://www.crystalrugged.com) for certification reports

#### 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 of your product.

#### Cooling

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

#### Software Compatibility

Accepts Windows 7®, Windows 8®, Windows Server 2008®, Windows Server 2012®, VMware®, or Linux®

\*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.

Need something different?

We customize!

Contact a Crystal Group Business Development Manager at:  
800.378.1636 / [info@crystalrugged.com](mailto:info@crystalrugged.com) / [crystalrugged.com](http://crystalrugged.com)

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