

## Crystal Group RS4105L22 Rugged 4U Server



### High-performance computing & high-capacity data storage in a rugged chassis

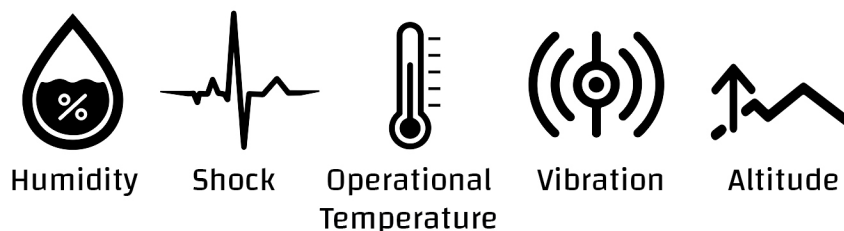
As processing performance continues to improve, Crystal Group is dedicated to minimize the SWaP envelope of the RS4105L22. With a depth of 22", this server fits most any rack space.

Our 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. We provide a broad range of military and industrial programs with integrated solutions for everything from communications and networking to weapons control, sensor and surveillance, and unmanned aircraft systems. The RS4105L22 provides optimized value for end users in DSP, SIGINT, C4ISR, and radar applications.

### Use cases

- Real-time communications and networking
- Weapons control
- Situational awareness
- Surveillance
- Unmanned aircraft and autonomous operations
- DSP, SIGINT, C4ISR, and radar applications

### Tested to MIL-STD-810



## Crystal Group RS4105L22 technical specifications

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mechanical</b>                                                                 | <b>Height:</b> 7.0" (17.8 cm)<br><b>Width:</b> 17.5" (44.5 cm); EIA-310 Rack Compliant<br><b>Depth:</b> 22" (55.9 cm)<br><b>Weight:</b> 55-66 lbs. (26.3-29.9 kg)                                                                                                                                                                                                                                                                                                                               |
| <b>CPU Architecture</b>                                                           | Dual socket Intel® Xeon® Scalable processors                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Expansion</b>                                                                  | Ten PCIe expansion slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>External Bay</b>                                                               | Five Crystal Group expansion bays, up to 15x SSD or other accessory modules                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                                                                     | 16GB – 3TB DDR4 RDIMM/LRDIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Power Supply</b>                                                               | <b>Option 1:</b> 3000W 120/240VAC 50/60Hz and 180-350VDC, N+1 redundant<br><b>Option 2:</b> 1620W and 18-36VDC, N+1 redundant                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cooling</b>                                                                    | 10 high speed, high volume fans, CPU temperature controlled                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Software Compatibility</b>                                                     | Supports Windows 10®, Windows Server, VMware®, or Linux®                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mounting</b>                                                                   | Jonathan rails or Crystal Glide rails                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Environmental testing standards</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests</b> | <b>MIL-STD-810, Operational Temperature, Method 501/502 Procedure I/II:</b> -30°C to +50°C <sup>1</sup><br><b>MIL-STD-810, Storage, Method 501, Procedure I/II:</b> -40°C to +85°C <sup>1</sup><br><b>MIL-STD-810, Humidity, Method 507, Procedure II:</b> 240 hours with conformal coat <sup>1</sup><br><b>MIL-STD-810, Altitude, Method 500:</b> 12,500ft operation, 40,000ft transport <sup>1</sup><br><b>MIL-STD-810, Vibration, Method 514, Procedure I:</b> 2 GRMS, 5-2000Hz, 60 min/axis |
| <b>MIL-S-901</b>                                                                  | Grade B <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Electromagnetic compatibility standards</b>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>FCC Compliant</b>                                                              | AC <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIL-STD-461</b>                                                                | AC/DC, RE102, CE102 compliant <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



In-house test reports provided for baseline units; customer-specific test options available upon request.

1: Designed to meet standard; testing in progress

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DOC-00759 REV D 12/23