

Field tested, fail-safe and long-life performance in extreme conditions. Feature-rich Crystal Group embedded computer systems are powerful, compact, and rugged. Easily configurable to meet specific customer requirements, the embedded product line boasts advanced thermal management and carbon fiber chassis field tested to withstand shock and vibration, extended temperature ranges, harsh elements, and extreme environments. Our embedded computer systems follow the Intel® roadmap to ensure access to the latest, most powerful Intel chipsets and processors.

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 to best manage cost, availability, scalability and flexibility.

Dependable services. When a computing application requires a custom solution, Crystal Group delivers with vertically-integrated services, including product design and development, testing, systems engineering and integration, mechanical and electrical engineering, configuration management, and product life-cycle planning.

Dedicated support. Our expert staff and global network provide fast and effective product support when and where it is needed. Count on Crystal Group for prompt response times, quick turnarounds, 5 year warranty, and quality service around the clock and around the globe.

FEATURES

- Compact construction 6"H x 15.4" W x 9.6"D footprint
- Less than 12 lbs
- Up to 16 Intel Xeon® D-21xx processor cores
- Up to three NVMe SSDs or six SATA SSDs
- 18-36 or 36-72 VDC power input

- Up to 256GB DDR4 memory
- Bulkhead, tray, or floor mounting options
- Expandable with multiple PCIe, mPCIe, and M.2 interfaces
- Four 1Gb Ethernet, two 10Gb Ethernet, two SFP+

A clear advantage.

CRYSTAL

Crystal Group RE1539 Rugged Embedded Computer

Specifications

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Height: 6" (15.24 cm)

Width: 15.4" (39.11 cm) Depth: 9.6" (24.38 cm) excluding connectors

Weight: 10.3-12.0 lbs. (4.7-5.4kg)

Power: 100-150W with select configurations; CPU dependent

CRYSTAL

Expansion

Two PCle 3.0 full-height, half-length expansion slots	
One mini-PCIe	
One M.2 M-key 2280	
One M.2 B-key 3042	

External Bay

Standard: Six removable 7mm SATA 2.5" SSDs Optional: Three removable 15mm NVME 2.5" SSDs

Cooling

Air cooled via three high-durability 92mm chassis fans

Mounting

Tray, bulkhead, or floor mounted with optional mounting kits

Software Compatibility

Windows® 10, Server 2019®, RHEL® 6.8/7.1/7.2, Ubuntu® 18/20, or CentOS® 7.1

Electromagnetic Compatibility Standards

Some standards may require an internal kit MIL-STD-461, CE102, RE102¹

Power Supply

200W 18-36 VDC 350W 36-72 VDC

System Board

Option 1: X11SDV-4C-TP8F Option 2: X11SDV-8C-TP8F Option 3: X11SDV-12C-TP8F Option 4: X11SDV-16C-TP8F

Configurable I/O NVIDIA RTX™ A2000 GPU CAN bus FD

Intel Movidius™ Myriad™ X Al module WiFi / LTE / GPS 802.3af PoE



1 - Testing in progress

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