

RE1322

RUGGED EMBEDDED COMPUTER



Intel® Core i7
CPU options



Ultra
lightweight,
small form
factor



One PCIe slot
for single or
dual width
cards



Two 15mm
SSDs or three
7mm SSDs



DC power
supply



Up to 64GB
RAM

MORE GPU POWER IN A SMALL PACKAGE

Easily configurable to meet specific customer needs, the embedded product line boasts advanced thermal management and a carbon fiber chassis field-tested to withstand shock and vibration, extended temperature ranges, and harsh environments. The RE1322 has two expansion slots in the chassis, allowing for low-profile, double width cards like RTX A2000, and RTX 4000 SFF ADA.

Crystal Group provides a 5-year warranty and forward-looking configuration management to enhance the long-term investment of your compute solution.



USE CASES

- Ground mobile applications
- Airborne applications
- UAV/UGV applications
- Industrial workstations (fixed or mobile)
- Video processing workstation when attached to rugged displays

CRYSTAL GROUP RE1322 TECHNICAL SPECIFICATIONS

Mechanical	Height: 4.5" (11.43 cm) max
	Width: 12" (30.48 cm)
	Depth: 9" (22.86 cm) excluding connectors
	Weight: 6.3-8.5 lbs. (2.9-3.86kg)
CPU Architecture	12th/13th Generation Intel® Core i7 CPU options
Expansion Slots	One PCIe slot for single or dual width cards
Cooling	Three high-reliability 60mm fans
Internal Bay	Up to three SATA 2.5" SSD (externally removable)
Memory	Up to 64GB
Power Supply	18-36VDC
Mounting	Tray or bulkhead using ears supplied
Software Compatibility	Windows 11®, Windows Server®, VMWare®, Linux

ENVIRONMENTAL TESTING STANDARDS

MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests	Operational Temperature, Method 501, Procedure I/II: -40°C to +60°C ¹
	Storage, Method 501, Procedure I/II: -40°C to +85°C ¹
	Humidity, Method 501, Procedure II: 240 hours with humidity kit ²
	Altitude, Method 500: 12,500ft operation, 40,000ft transport ²
	Vibration, Method 514, Procedure I: 5.5G, 5-2,000Hz, 60 min/axis, 3 axis with vibration kit ¹
MIL-S-901	Grade A: With solid state drives + shock kits

ELECTROMAGNETIC COMPATIBILITY STANDARDS

Some standards may require an internal kit; Testing with solid state drives

MIL-STD-461	RE102, CE102 compliant ²
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In-house test reports provided for baseline units; customer-specific test options available upon request.

1: Test report available

2: Testing in progress

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