CRYSTAL GROUP™
RUGGED TECH. ZERO LIMITS.

RS232S17A

RUGGED 2U WORKSTATION

- Single processor
- Three full-height PCIe slots
- Multiple drive options
- Short depth chassis
- AC or DC power
- 128GB, DDR4 to DDR5



FIELD-TESTED, FAIL-SAFE, AND LONG-LIFE PERFORMANCE IN EXTREME CONDITIONS

As processing performance continues to improve, Crystal Group is dedicated to minimize the SWaP envelope of the RS232S17A. High-end computing performance in a 2U chassis with a depth under 17" (43.1 cm) fits most any rack space. This rugged workstation supports a variety of drive types, including large rotational drives.

The RS232S17A provides high-performance computing and high-capacity data storage in a rugged, all-aluminum package, to withstand the harshest terrains and applications.

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



USE CASES

- Guided missile destroyers
- Naval applications
- Weapon systems
- Electronic warfare systems
- Multi-function radar
- Unmanned aerial systems (UAVs)

CRYSTAL GROUP RS232S17A TECHNICAL SPECIFICATIONS

Mechanical	**Height:** 3.5" (8.89 cm) **Width:** 17.5" (44.45 cm) **Depth:** 17" (43.2 cm) **Weight:** 20-24 lbs (9.07-10.88 kg), content dependent
Mounting	Delrin glides, fixed mount (front and rear), or Jonathan rails
Power Supply	**Option 1:** 460W 120/240VAC 50/60Hz w/PFC, 115VAC 400Hz **Option 2:** 505W 18-36VDC
CPU Architecture	Series 12/13th Gen CPU options
Memory	128GB, DDR5
Expansion	1 PCI-E x16, 2 PCI-E x8
External Bays	**Option 1:** Two removable SATA or SAS 2.5" or 3.5" HDD **Option 2:** Four 2.5" SATA or SAS HDDs **Option 3:** Can be combined with HDD option: One CD/DVD/BD (R/W)
Cooling	Eight high speed, high volume fans CPU temperature controlled
System Board	Supermicro X13SAZ-F/Q
Software Compatibility	Supports Windows 11®, Windows Server, or Linux®

ENVIRONMENTAL TESTING STANDARDS

Environmental Engineering Considerations and Laboratory Tests	**Operational Temperature, Method 501/502 Procedure I/II:** -35°C to +60°C[2] **Storage, Method 501, Procedure I/II:** -55°C to +85°C[1] **Humidity, Method 507, Procedure II:** 240 hours with humidity kit[2] **Altitude, Method 500:** 12,500ft operation, 40,000ft transport[2] **Vibration, Method 514, Procedure I:** 3G, 5-2,000Hz, 60 min/axis with solid state drives + vibration kits[2] **Shock, Method 516, Procedures I/V:** 20g, 11msec--functional shock; 40g, 11msec crash hazard shock[2]
MIL-S-901	**Grade B**[2]

ELECTROMAGNETIC COMPATIBILITY STANDARDS

FCC Compliant	AC[2]
MIL-STD-461	AC/DC, RE102, CE102 compliant[2]
RTCA/DO-160	Section 21, Category M[2]

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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AS9100D CERTIFIED ISO 9001

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