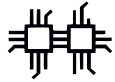


CRYSTAL GROUP FG2 1100 SERIES 1U SERVERS



Single
processor



Up to 24
cores



Low-profile
or full-height
PCIe



Modular
design



AC or DC
power



Up to 2TB
DDR5 ECC
RDIMM



TRANSFORM THE TACTICAL EDGE WITH REAL-TIME PROCESSING

The Crystal Group FG2 1100 Series servers provide enhanced storage and CPU options based on specific application needs.

Intel's® 5th Generation Xeon® Scalable processors have built-in artificial intelligence (AI) acceleration with Intel® Deep Learning Boost, advanced encryption standard (AES), total memory encryption, software guard extensions (SGX), support a single-socket E+ motherboard, and increase system memory bandwidth with up to eight DDR5 channels.

This NVIDIA-Certified System is validated for optimal performance, manageability, security and scalability.

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

USE CASES

- Battlespace management and visualization
- C4/ISR processing
- High-density computing in air, on land or at sea
- Sensor fusion for pinpoint situational awareness
- Cryptographic engines
- Inference at scale at the tactical edge
- Security applications requiring tamper resistance and instant data destruction
- GPU server

CRYSTAL GROUP FG2 1100 SERIES TECHNICAL SPECIFICATIONS

Mechanical	Height: 1.75" (4.45 cm) Width: 16.9" (44.5 cm) Depth: 19" (48.3 cm) Weight: 23–26 lbs (10.4–11.8 kg)
Mounting	Glides, fixed mount (front and rear), or Jonathan rails
Power Supply	800WAC, 50/60 or 400Hz, 505W 18–36VDC
CPU Architecture	4th Generation Intel Xeon Scalable CPU power: up to 165W per socket
Memory	16GB–4TB DDR5 ECC RDIMM (motherboard dependent)
Expansion	One low-profile or full-height PCIe slot (motherboard dependent)
External Bays	Option 1: Up to 8 SATA or SAS SSDs Option 2: Up to 4 U.2/U.3 NVME SSDs
Software Compatibility	Windows 11, Windows Server, VMware, Linux

ENVIRONMENTAL TESTING STANDARDS

MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests	Method 500, Altitude: 12,500 ft. operation, 40,000 ft. transport ² Method 501, Operational Temperature, high: Procedure II: +55°C, two-hour dwell, four cycles ¹ Method 502, Operational Temperature, low: Procedure II: -40°C, two-hour dwell, four cycles ¹ Method 503, Thermal Shock: Procedure II: 10 cycles, -40°C to +55°C, 15-min dwell, <1-min transfer time ² Method 507, Humidity: Procedure II: 240 hours with optional conformal coating kit ¹ Method 508, Fungus: 28 days, mixed spore, 30°C 95% RH ² Method 509, Salt fog: 48-hour test ² Method 510, Sand-Dust: Procedure I: Blasting dust, 12 hours ² Method 513, Acceleration: Procedure II: 9g ² Method 514, Vibration: Procedure I: 4.7G, 5–2,000Hz, 60 min/axis, 3 axis ¹ Method 516, Shock: Procedures I & V: 40G, 11ms, 18 pulses, 3/axis both directions ¹
MIL-STD-1474E	Acoustic Noise, Requirement S, Grade A3 ²
MIL-STD-167-1A	Ship Vibration, Type 1 ¹
MIL-S-901E	Shipboard Shock, Class II, A/B ²

ELECTROMAGNETIC COMPATIBILITY STANDARDS

MIL-STD-461	EMI/EMC, RE102, CE102; Surface ship, below deck, and ground ¹
RTCA/DO-160	Aircraft and airborne equipment, 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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