FG2 3700 SERIES

3U SERVERS

- Single or dual processors
- 64 cores
- Up to 7 full-height PCIe slots
- M.2: 2 NVMe: 12 SATA: 24
- AC or DC power
- Up to 4TB DDR5 ECC RDIMM





ACHIEVE INFORMATION SUPERIORITY AT THE SPEED OF RELEVANCE

Designed with up to four of the world's highest-performing GPUs and either Intel® Xeon® or AMD EPYC™ processors with the latest PCIe Gen5 interconnectivity, the Crystal Group FG2 3700 Series servers deliver unmatched acceleration for data processing, machine learning, AI training, and AI inference. The scalable configuration can also accommodate ultra-fast DPUs. Pairing GPUs with DPUs enables enhanced data and application security, increased data center and cloud application performance, and ultra-low latency networking at the edge.

The compact, rugged design integrates high-capacity, long-life, custom power supplies, and custom heat sinks for optimal thermal performance. This ensures reliable, seamless execution of mission-critical applications—from real-time sensor fusion and object recognition to video processing and ray tracing—delivering complete, accurate, actionable intelligence.

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

- Tactical battlespace management
- Command and control networking
- Intelligence gathering and data processing
- Multi-sensor fusion aggregation
- Data storage server (NVMe, SAS, or SATA)
- GPU server

CRYSTAL GROUP FG2 3700 SERIES TECHNICAL SPECIFICATIONS

Mechanical	**Height:** 5.25" (13.33 cm) **Width:** 17.5" (44.45 cm) **Depth:** 19" (48.26 cm) or 22" (55.88 cm) **Weight:** 38-42 lbs (17.23-19.05 kg) or 40-62 lbs (18.14-28.12 kg)
Mounting	Glides, fixed mount (front and rear), or Jonathan rails
Power Supply	800WAC, 1005W 18-36VDC, or 1200W AC 1+1
CPU Architecture	Intel Xeon or AMD EPYC series processors Up to 96 cores per socket (motherboard dependent)
Memory	16GB–4TB DDR5 ECC RDIMM (motherboard dependent)
Expansion	Up to seven full-height PCIe slots
External Bays	**Option 1:** Up to 24 SATA or SAS SSDs **Option 2:** Up to 12 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: -30°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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AS9100D CERTIFIED ISO 9001

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RUGGED TECH. ZERO LIMITS.

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