Gray Wolf 2
Mission-Critical Performance: 2U HPC Series Supercomputers

Lifecycle Stage: Preliminary | Engineering Development (pre-release)   **systelusa.com/gray-wolf-2**

Product Brief

The Power of a 4U in a 2U.
Gray Wolf 2 is a rugged 2U HPC Supercomputer. Featuring immense processing capability including two latest generation Intel Scalable Xeon CPUs, up to two dual-slot NVIDIA H100 GPUs with NVLINK, and 2 expansion slots for half height full width add in cards, Gray Wolf 2 is the best-in-class choice for AI, SIGINT, EW/CW demanding workloads in austere environments.

Gray Wolf 2 provides immense data center performance in a compact, rugged server fieldable in the harshest environments, and can be configured and purpose-built for defense and commercial mission-critical applications.

Systel products are engineered with a standards-based approach utilizing open architectures and commercial off the shelf (COTS) technologies, ruggedized to meet MIL-SPEC requirements.

Key Features

- Latest-gen E-ATX motherboard
- (2) latest Intel Xeon CPUs
- Up to (2) NVIDIA data center GPUs with NVLink
- Up to (2) HHFL Add in Cards
- Memory: up to 2TB
- Storage: up to (4) removable 2.5" SSDs
- High-bandwidth networking available via Add-In NICs
- 2200W 110VAC CRPS power supply; option for 1900W 28VDC power supply with MIL connector
- Security: supports data at rest (DAR) and data in transit (DIT); TPM 2.0; supports FIPS 140-2 and AES 256 encryption; Intel TXT and SGX
- MIL-SPEC rugged
- Designed using a modular open systems approach (MOSA)

jetcool

Systel has partnered with JetCool to engineer a liquid cooling solution (in development) for integration into Gray Wolf 2 to support next-gen high-performance, high wattage processors and reduced acoustic noise customer profiles.

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Any Mission. Anywhere.

Gray Wolf 2 Specifications

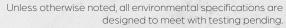## Model Number: RCS2500V

Systel 3-Year Product Warranty
EOL and Configuration Management Included

System Specs

Chassis
- Material: 5052 aircraft-grade aluminum
- Finish: clear alodine with black powder-coat front panel and top cover

Front Panel
- Power and reset buttons; power and HDD indicator lights
- (2) USB 3.0 ports

SWAP
- Chassis Dimensions: 17"W x 22"D x 3.47"H; fits EIA 19" standard rack
- Weight: ~35-75lbs
- Power Supply: 2200W 110VAC CRPS or 1900W 28VDC (w/ MIL connector option)

Processing
- Motherboard: latest gen ATX, E-ATX
- CPU: Up to (2) latest gen Intel Xeon
- (1) TPM 2.0
- GPU: Up to (2) NVIDIA H100 with NVLink
- Memory: up to 2TB
- Expansion: (2) half-height, half-length slots
- OS: supports Windows and Linux 64-bit (please consult with a Systel sales representative for specific OS requirements)

Storage
- Up to (4) removable 2.5" SSDs, NVME or SATA

Temperature
Operating: –10C to +55C MIL-STD-810H, Method 501.7 and 502.7, Proc. III; Non-Operating: –40C to +70C MIL-STD-810H, Method 501.7 and 502.7, Proc. I

Vibration
Operating: Ground Vehicle, MIL-STD-810H Method 514.8, Proc. I, Cat. 20, Composite Wheeled Vehicle, Annex C Fig 514.8C-6 and Table 514.8C-VII; Non-Operating: Composite Two-Wheeled Trailer MIL-STD-810H Method 514.8, Proc. 1, Cat. 20, Fig 514.8C-4 and Table 514.8C-IV

Humidity
MIL-STD-810H, Method 507.6, Proc. I and II

Altitude
Operating: 15,000 ft. MIL-STD-810H, Method 500.6, Proc. II; Non-Operating: 45,000 ft. MIL-STD-810H Method 500.6, Proc. I

EMI/EMC
Option to add EMI filter for MIL-STD-461G

Power
MIL-STD-1275E, MIL-STD-704F, MIL-HDBK-704-8

Unless otherwise noted, all environmental specifications are designed to meet with testing pending.

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