WOLF VNX+ Chassis Lineup

Up to 8 VNX+ slots, multiple form factors, multiple cooling options, available NVIDIA® Jetson AGX Orin™ Industrial

OVERVIEW

WOLF's VNX+ high-performance chassis meets the needs of demanding C5ISR applications, providing a secure compute node with advanced AI and HPC processing capabilities. The VNX+ form factor minimizes size, weight and power, while still ensuring a high level of performance.

Standard Chassis

- Available in 2 – 8 slots with conduction, air, or liquid cooling with optional NVIDIA® Jetson AGX Orin™ Industrial

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Multiple chassis designs are available to ensure a fit in any space, regardless of shape or size, with options shown for a rectangular design, as well as cylindrical designs with a diameter of 4", 5", 6", or 11". Various cooling options are supported to align with any environmental requirements, including air-, liquid-, and conduction-cooling designs.

For the highest performance edge-compute capabilities, a NVIDIA® Jetson AGX Orin™ Industrial is embedded into the chassis. While these system-on-modules are too large for a VNX+ module, the chassis embedded design provides a significant increase in AI compute power, 64 GB of ECC memory, and more without requiring significantly more space.

Typical active cooling configurations for high-performance chassis are designed to make use of air temperatures up to 50 °C or fluid temperatures up to 65 °C. Conduction cooled designs are intended to mount to a cold plate, which WOLF can design to fit in various applications.

KEY FEATURES

- Slots for 2 to 8 VNX+ plug-in-modules
- Various I/O configurations
- Available with air-, liquid-, or conduction cooling design
- Customizable front plate with rugged 38999 connectors
- Designed for 28 VDC input, customizable on request

MECHANICAL

- High level of ruggedization
- ANSI/VITA 90.0 or 90.4 (wedgelock) slot profiles
- Rectangular or cylindrical form factors of varying sizes

4" Cylinder

- Available in 2, 4, or 6 slot with air cooling or embedded heat sink

PRELIMINARY

Information Subject to Change | WOLF Proprietary Information

WOLF ADVANCED TECHNOLOGY

Contact us with any questions and quote needs

wolf-at.com sales@wolf-at.com 1.800.931.4114

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MANUFACTURING & QUALITY ASSURANCE

WOLF designs modules and chassis to pass the following environmental standards

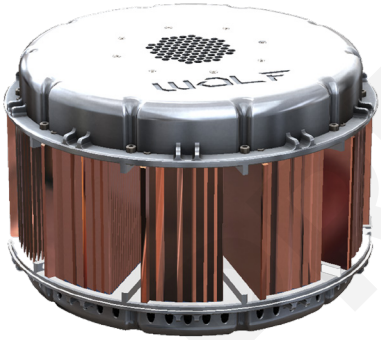
- MIL-STD-810 (United States Military Standard for Environmental Engineering Considerations and Laboratory Tests)
- MIL-HDBK-217 (Reliability Prediction of Electronic Equipment)
- RTCA DO-160 on request (Environmental Conditions and Test Procedures for Airborne Equipment) on request

WOLF complies with the following management systems:

- AS9100D: Quality Management System - Requirements for Aviation, Space and Defense Organizations (certified)
- ISO 9001:2015: Quality management systems (certified)
- AS5553: Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition (compliant)
- NIST SP 800-171: Protecting Controlled Unclassified Information in Nonfederal Systems (compliant)

Boards are manufactured to meet the following standards:

- IPC-A-610 CLASS 3 (Acceptability of Electronic Assemblies)
- IPC 6012 CLASS 3 (Qualification and Performance Specification for Rigid Printed Boards, Class 3 for High Reliability Electronic Products)
- IPC J-STD-001 (Requirements for Soldered for Electrical and Electronic Assemblies)



11″ Cylinder

- Available in up to 8 slots with air cooling using WOLF's blower technology, with optional NVIDIA® Jetson AGX Orin™ Industrial

5″ Cylinder

- Available in 2 – 6 slot with air cooling or embedded heat sink

NVIDIA® JETSON AGX ORIN™ INDUSTRIAL FEATURES

- Orin Industrial, embedded Ampere GPU with 2048 CUDA cores and 64 Tensor cores
- Embedded 12-core NVIDIA Cortex ARM64 CPU, 2.2GHz
- MST DisplayPort or HDMI output
- 2x Deep Learning Accelerator (DLA) v2 engines
- Vision Accelerator engine for 7-way VLIW Vision Processor v2
- Dedicated programmable audio processor
- 2x HEVC (H.265) and AVC (H.264) NVENC and NVDEC with up to 4K-UHD encode resolution
- 64 GB LPDDR5, 256 bit, up to 205 GB/s
- CUDA®, OpenGL® 4.6, Open GL ES 3.2, VulkanTM 1.3

6″ Cylinder

- Available in 2 – 6 slot with air or liquid cooling with optional NVIDIA® Jetson AGX Orin™ Industrial

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