wiwynn®

Universal Management System - Wiwynn® UMS100

Navigating Datacenter Evolution: UMS100 Empowers Comprehensive Control and Flexibility

Contemporary Datacenter Challenges

In the ever-evolving landscape of datacenters, prioritizing efficiency, reliability, and sustainability is paramount. The challenges posed by AI servers, such as high computational demands, reliance on power-hungry GPUs, or accelerators, have intensified and led to potential hotspots, complicating cooling efficiency further.

Liquid Cooling Transition with UMS100

Traditional air-based cooling falls short for the densely packed AI servers. Wiwynn® addresses these challenges with the Universal Management System (UMS100), a groundbreaking solution providing datacenter customers complete control over their liquid cooling infrastructure and power shelves within server racks.

Leak Prevention and Control Measures

Tailored for AI and liquid cooling challenges, the UMS100 ensures comprehensive control and optimization of datacenter operations. Equipped with advanced leak detection capabilities, it quickly contains liquid leaks to prevent potential disasters and safeguard valuable equipment and data. In a leakage event (detecting 85% humidity level), users receive immediate alerts to enable swift response and ensure the system's safety.
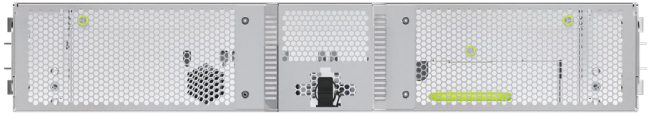
Insights, Integration and Remote Management

Unlocking Datacenter Excellence, UMS100 provides valuable insights into the performance and health of rack infrastructure through comprehensive data analytics. Leveraging advanced reporting tools, it enables swift issue detection and resolution. UMS100 further ensures seamless integration with a standard API, featuring a northbound interface compatible with the Redfish interface, allowing secure oversight and management of datacenter infrastructure from anywhere with convenient remote access.
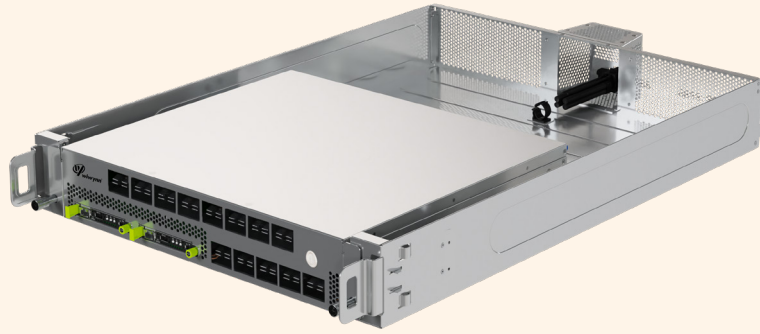
Redundancy and Future-Ready Flexibility

Focused on uninterrupted operations and future-ready flexibility, UMS100 implements dual redundant management interfaces for maximum uptime and continuous functionality. When one interface fails, the system remains accessible for business continuity. UMS100's flexible orchestration for future growth supports diverse equipment, allowing datacenter operators to build a resilient, efficient, and adaptable infrastructure.

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Wiwynn® is a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers.

Model : Wiwynn Universal Management System 100

UMS100

Processor	ASPEED AST2600
Redundancy	Dual Management Board Redundancy
Management Interface	• Redfish API • WebGUI
Management Port	• 1Gbps (RJ45) x1 per Management Board
I/O Port	• MODBUS TCP 100Mbps (RJ45) x16 • I2C (RJ45) x32 (Leakage Detection) • Analog Input x4 (Rack-level Leakage Detection)
Number of Sensors	Up to 292
Device U (Height)	2RU
Chassis Dimension (W*D*H)	855 * 540 * 92.7 mm
Power Source	• 48V DC Busbar

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