

4U Low-Voltage Complete Equipment for Intelligent Computing Center



Article Overview

4U low-voltage equipment integrates compact power distribution and high-capacity cooling solutions to support AI, HPC, and hyperscale data centers efficiently.

Overview

4U low-voltage equipment is designed to maximize rack space while delivering high power and cooling capacity for intelligent computing centers. These systems are ideal for high-density environments where AI, HPC, or cloud workloads demand reliable, scalable, and energy-efficient infrastructure. They typically combine rack-mounted power distribution units (PDUs), coolant distribution units (CDUs), and intelligent monitoring systems in a compact 4U form factor.

Cooling Solutions

Inova NovaCool™ Rack CDU delivers 120 kW of cooling in a 4U rack, supporting AI and HPC workloads. It features N+N redundant pumps, dual power supplies, and integrated 7" HMI with Modbus, SNMP, and web access for intelligent monitoring and control. The system ensures global compatibility with a wide input voltage range (100–240 V AC, 50/60 Hz) and includes built-in leak detection and dew-point control for safe operation. Motivair In-Rack CDU provides up to 105 kW of cooling in a 4U design, creating an isolated water loop for precise coolant flow and temperature control. It supports AI-driven workloads, HPC, semiconductor manufacturing, and hyperscale data centers, with redundant circulating pumps and flexible top or botto...

Article Content

EBS-4U | AIoT & Industrial Solutions | ASUS Global

The EBS-4U is designed for high performance and great compatibility in harsh environments, offering a variety of features to ensure

Supercharge Your Intelligent Computing Center with AI-Ready Data ...

If you don't want your intelligent computing center to be burdened with data silos or performance and capacity issues,

China Unicom Wuzhen Intelligent Computing Center

CHINT delivered an end-to-end EPC solution for China Unicom's Wuzhen Intelligent Computing Center (Zhejiang, 2024), integrating

Altair is now part of Siemens

Altair has been acquired by Siemens, creating the world's most complete AI-powered portfolio of industrial

Intelligent motor control center fundamentals | Eaton

What makes a motor control center (MCC) intelligent? Motor control centers provide monitoring and control for the operation of a

4U Rackmount Servers

4U rack servers with single-socket AMD or Intel CPUs, supporting up to 60 hot-swap HDDs, 16 DIMMs, and 2.5"/3.5" drives for

Beginner's Guide to Intelligent Computing Centers

An intelligent computing center is an infrastructure facility that provides high-performance computing power and data

4U AI Server

Designed with versatility in mind, this 4U server allows up to four Neural Processing Unit (NPU) cards for

Siemens and partners develop reference architecture purpose-built ...

Siemens brings decades of expertise in industrial-grade electrical systems and intelligent infrastructure to the data

H3C UniServer R6900 G7 Server

While meeting business requirements, it effectively reduces server power consumption, contributing to building a green, low-carbon

4U Rackmount Computer and Industrial Rack Mount Computer

With the use of the latest Intel Processors and extended selection of motherboards to choose from, the 4U rackmount is sure to meet

The Intelligent Micro Module, the Element of Intelligent Data Centers

The Intelligent Micro Module promotes optimized deployment of data center capacity. Precise management of building- and cabinet

MGX 4U Series

Tailored to meet the demands of AI computing, the 4U MGX configuration provides the necessary power and resources to handle

4U Rackmount Chassis / InWin / IW-RL400

The IW-RL400 is a 4U rackmount chassis designed for AI applications, including LLM and generative AI workloads. Pre-installed with

Huawei's top 10 construction principles for intelligent computing ...

Huawei's top 10 construction principles for intelligent computing centre facilities The era of intelligent computing is

Application Models for Power Distribution – Data Centres

6 Totally Integrated Power –Framework for Electric Power Distribution in Data Centres
1 1 Framework for Electric Power Distribution

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As China's digital transformation pioneer, we deliver cutting-edge smart computing center solutions integrating AI-driven

4U Rack Mount PCs

ICI industrial pcs provide engineering solutions with custom robust configurations for industrial computing

KISS 4U Rackmount Systems

The Kontron 4U system series: designed for continuous high-reliability operation and low total cost of

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Industrial Computer Range | Captec | Rackmount Computing

The IC-446-G series from Captec is our most robust off-the-shelf 4U rack mount computer. Designed for demanding and challenging

DC for efficiency

Low voltage DC power infrastructure in data centers ANDRÉ SCHÄRER – Looking at all data centers worldwide, around 80 million

Next-Generation Data Center Facility

With surging demand for data center construction, information technology evolution and low-carbon requirements, the data center

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