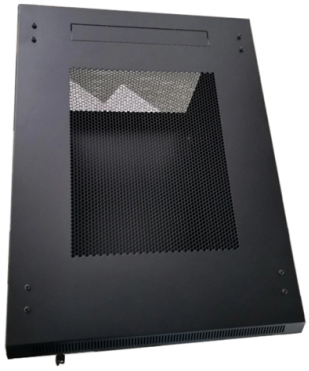
Intelligent PDU with Network



Overview

Changing your location may affect product availability. Certain products may not be available in all international regions. Current Selected Country: United States |English . Africa . Asia . Europe .

Key Takeaways

An intelligent PDU with network capabilities allows real-time monitoring, remote management, and precise control of power distribution to IT and industrial equipment.

Overview

An Intelligent PD

U (iPDU), also called a smart PDU, goes beyond basic power distribution by providing networked monitoring, management, and control of connected devices.

These PD

Us enable data center and IT managers to track power consumption, voltage, current, and energy usage at the rack or outlet level, helping optimize efficiency, reduce downtime, and maintain high availability for critical systems.

Key Features

Network Connectivity: Dual Ethernet ports, Wi-Fi, and sometimes Bluetooth allow remote access and integration with DCIM (Data Center Infrastructure Management) systems.

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Outlet-

Level Control: Individual outlets can be monitored and switched on/off remotely, enabling targeted rebooting of servers or network devices without affecting other equipment. Environmental Monitoring: Many iPDUs support sensors for temperature, humidity, and airflow, providing alerts when thresholds are exceeded. Alerts and Alarms: Configurable notifications for overloads, power failures, or environmental changes help prevent downtime.

High-

Density Support: Designed for racks with high power demands, supporting up to 48 outlets in a 42U form factor and high-density server environments. Security and Compliance: Features like 802. 1x authentication, code signing, and MIL-grade security ensure safe networked operation.

BenefitsReal-Time Monitoring: Track energy usage and power quality remotely, enabling proactive management. Reduced Downtime: Remote reboot and scheduled power sequences allow quick recovery from device failures. Scalability: Daisy-chaining multiple PDUs on a single network port simplifies deployment in large data centers.

Integration: Seamless compatibility with DCIM and network management tools ensures centralized control and reporting.

Example Products

Panduit EL2P PDU: Offers dual 1GB Ethernet, Wi-Fi, Bluetooth, daisy-chain capability for up to 64 units, and integration with third-party DCIM applications. Ideal for hospitals, financial institutions, industrial environments, and high-density data centers.

APC Net

Shelter Advanced Rack PD

Us: Provide up to 50% more power, multiple outlet types, and networked monitoring for flexible deployment in enterprise and data center racks.

Generic Smart PD

Us: Many manufacturers offer switched, metered, and monitored PDUs with SNMP/Modbus integration, RESTful APIs, and per-outlet metering for precise energy management.

Applications

Data Centers: High-density server racks, network switches, and storage arrays. Industrial Facilities: Automation cabinets, control systems, and plant-wide infrastructure. Financial Institutions: ATMs, trading systems, and branch networks requiring high uptime.

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Educational Campuses: Labs, classrooms, and IT infrastructure with centralized monitoring needs.

Intelligent PD

Us with network capabilities are strategic assets for modern IT and industrial environments, providing visibility, control, and reliability while supporting energy efficiency and operational continuity.

Article Content

Intelligent PDU | nVent DATA-SOLUTIONS

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Smart PDU Solutions | Intelligent Power Distribution Units

Switched, metered and monitored Smart PDU solutions for data centers, telecom and industrial applications. Remote outlet control, energy metering, SNMP/Modbus integration and OEM/ODM

Smart PDU''s – Intelligent Power Management | nVent DATA

Explore a diverse selection of Intelligent PDUs, including Enlogic PDUs, tailored to suit your unique requirements. From basic monitoring to advanced metering and switching capabilities, Enlogic PDUs

Intelligent Power Distribution Units

Take energy management to the next level with Panduit PDUs. Designed to protect both on-premises and remote environments, our PDUs not only optimize power

IPDU Intelligent Power Distribution Unit

However, unlike traditional Power Distribution Units (PDUs), an iPDU goes beyond basic power delivery by incorporating intelligent features and network connectivity, allowing for real-time monitoring,

Intelligent Rack PDU Product Overview

Transcript: Would you like to improve uptime, save energy, and manage the power in your data center cabinets remotely? Raritan''s PX intelligent rack PDUs are exactly what you need. They''re built to

What is an Intelligent PDU?

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The intelligent PDU provides data center professionals with remote network access to real-time critical infrastructure data to help drive informed decision making to ensure maximum availability and to

SMART PDU I-type

Intelligence that scales. With its 1U compact design, Delta''s SMART PDU I-Type frees up valuable rack space. Program, monitor, and remotely control your power distribution with ease, helping you scale

Smart PDU & Intelligent Power Distribution Units | Rack Power Solutions ...

Browse LeadingNets intelligent PDUs including smart rack PDUs, switched PDUs, metered PDUs, and network PDUs. Reliable power

4 Types of PDU in Data Centers: Overview and Features

FAQ What is the difference between a metered PDU and a monitored PDU? Metered PDUs provide rack-level power measurements, while monitored PDUs typically offer outlet-level

Download software | Power management | Eaton

Download the latest Eaton software solutions for power management of your UPS (uninterruptible power supply), rackmount PDU (power distribution units) and network connectivity devices.

Data Center Rack PDU Market Demand Forecast Driven by Smart

The Japan Data Center Rack PDU Market is characterized by a mature infrastructure landscape with steady growth driven by ongoing upgrades to existing data centers and new

Raritan PX3 Rack PDU

Intelligent Rack PDU (PX3) Raritan''s power intelligence capabilities at the device level provide important insights on how to improve energy efficiency in data centers and other locations.

PX4 Landing Page

The PX4 is more than just a rack power distribution unit. It is a unified rack PDU solution that provides forward-thinking tools, sensors, and insights to solve ever-evolving infrastructure challenges. It

High Power Intelligent PDU for AI Data Centers | Case Study

Full product development case study — intelligent 45 kVA rack PDU with per-outlet metering, embedded Linux management, UL certification, and volume production for US data centers.

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Power Distribution Units (PDU) – Intellinet Europe

Intellinet PDUs and rack power strips for 10" and 19" network cabinets with protective-contact, C13 and Smart PDU options for network and server racks.

What is the difference between PDU and PSU?

A PDU organizes and distributes power to multiple devices, while every server and network device relies on its own PSU for AC-to-DC conversion. Since they perform different functions, one cannot replace

Premium+ PDU With Racklink, 9 Outlet 20A 2-Stage Surge

More than power distribution, the Premium+ PDU with RackLink™ is the most advanced - yet simplest - to use IP control solution for Remote System Management in the industry. Developed around a

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Technical inquiry: https://metramarket.es/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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