

Network Intelligent PDU



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.



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.

Benefits
Real-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.

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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EL2P Intelligent Power Distribution Unit

The EL2P PDU provides reliable, intelligent power distribution in hospitals and clinics, reducing install complexity and enhancing uptime for medical networks

Intellinet 19" 1U Intelligent 8-Port PDU (163682)

The Intellinet Network Solutions 19" Intelligent 8 Port PDU provides your system-critical devices with steady power, monitors current-voltage levels and keeps track of environmental temperature and

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

What is an Intelligent PDU?

An intelligent PDU, also known as smart PDU, goes beyond distributing power to IT equipment within the data center. It is capable of monitoring, managing, and controlling power consumption to multiple

Intelligent PDUs□Types and Benefits

Common Characteristics of Intelligent PDUs Despite differences in design and functionality among manufacturers, most intelligent PDUs (Power Distribution Units) share several

Power Distribution Units (PDU) - Intellinet Europe

Thanks to their robust construction, easy rack installation, and wide range of outlet and protection options, Intellinet PDUs ensure safe, efficient, and organized

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

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

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

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.

Data Center PDU Market Size, Share & Trends

Restraint: High initial cost associated with intelligent and advanced PDU systems The high initial cost associated with intelligent and advanced PDU systems remains a major restraint for the data center

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

EL2P Intelligent Power Distribution Unit

Financial Designed for reliability in financial institutions where uptime and data security are paramount. The intelligent EL2P PDU secures and monitors critical

Smart PDU & Intelligent Power Distribution Units | Rack

Browse LeadingNets intelligent PDUs including smart rack PDUs, switched PDUs, metered PDUs, and network PDUs. Reliable power distribution for data centers

Intelligent PDUs | Smart Power Distribution Units | Server Room ...

Intelligent PDUs Intelligent PDUs provide the highest levels of power management and control. A network management controller (NMC) built into the PDUs provides local and remote metering

What is a Smart PDU?

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What is an Intelligent PDU and What Can it Do for Your Data Center?

By Marc Cram, Legrand An Intelligent Power Distribution Unit (PDU) is a networked power distribution unit that increases the efficiencies of data centers with real-time remote power

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

