How to configure a smart PDU



Overview

To set up RNA mode on two PDUs, the user must (1) configure the PDUs for RNA Mode (using CLI) and then (2) connect the LAN Network cords and Ethernet cords between PDUs.

Key Takeaways

Setting up a smart PDU involves mounting the unit, connecting power and network cables, configuring IP and user settings, and enabling monitoring and alerts for efficient power management. Step 1: Plan and PrepareDetermine power requirements: Check the voltage, current, and total load of your equipment to ensure the PDU can handle it safely. Select the right PDU type: Choose between metered, switched, or high-density models depending on your monitoring and control needs.

Check rack space: Ensure there is enough room in your server rack or cabinet for the PDU and cabling. Gather tools: Screwdrivers, mounting brackets, Ethernet cables, cable ties, labels, and a laptop or tablet for configuration. Step 2: Physical InstallationMount the PDU: Use the provided brackets to secure the PDU vertically or horizontally in the rack.

Connect power input: Plug the PDU into a reliable power source, such as a UPS or wall outlet. Connect output devices: Attach your servers or network equipment to the PDU outlets, labeling each cable for easy identification. Step 3: Network ConfigurationConnect to the network: Use Ethernet or other supported methods to link the PDU to your network.

Access the web interface: Log in using the default username and password provided in the manual.

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P and network settings: Configure IPv4/IPv6 addresses, subnet mask, and gateway to ensure network accessibility. Enable protocols: Activate SNMP, Telnet, SSH, MQTT, or Modbus TCP as needed for monitoring and integration. Step 4: User Accounts and SecurityCreate user accounts: Assign roles and permissions to control access.

Set strong passwords: Change default credentials and enforce password policies. Enable security features: Use TLS, digital certificates, and Secure Boot to protect communications and firmware. Configure alerts: Set up email notifications for overloads, power events, or other critical conditions.

Step 5: Monitoring and ManagementLabel and organize outlets: Helps with maintenance and troubleshooting. Schedule power cycles: Configure outlet reboot schedules to prevent downtime and optimize energy use. Aggregate data: For multi-unit setups, use a Smart Node or controller module to centralize monitoring.

Remote management: Access the PDU dashboard to monitor energy consumption, control outlets, and respond to alerts from anywhere. Step 6: Maintenance and Best PracticesRegular firmware updates: Keep the PDU software current to ensure security and functionality. Check load capacity: Monitor rack power usage to prevent overloads and plan for future expansion.

Document setup: Maintain records of IP addresses, outlet assignments, and user accounts for troubleshooting. By following these steps, you can safely install, configure, and manage a smart PDU, ensuring reliable power distribution, energy efficiency, and remote monitoring capabilities in your data center or server environment.

Article Content

Intelligent PDU User Manual v4.4

To set up RNA mode on two PDUs, the user must (1) configure the PDUs for RNA Mode (using CLI) and then (2) connect the LAN Network cords and Ethernet cords between PDUs.

Smart PDU Operating Manual / API document

The PDU automatically schedules relay on/off to prevent imbalance and reduce inrush. Only one outlet at a time is turned on/off, even when all the outlets are requested to turn on/off at the same time.

Intelligent Rack PDU Installer/User Guide

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To access the unit for the first time, you must temporarily change your computer''s network settings to match the 192.168.123. xxx subnet. To set up the unit, connect it to your computer''s Ethernet port,

Smart PDU Manual A40194_00_IT74_eng

The audience for this guide is the technical spe-cialist familiar with the assembly, installation and operation of the Smart PDU System. You should read this operating guide prior to commissioning

User Manual Smart PDU SP7040200

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product. This manual is only for

Installing an Intelligent PDU: Step by Step Guide | Intelligent PDU

Get started with installing your intelligent PDU – our step-by-step guide will make the process easy and straightforward.

IP Controlled PDU Setup Made Simple

Simplify your IP controlled PDU setup with this step-by-step guide. Learn how to configure, secure, and optimize power management for your IT infrastructure.

Packet Tracer Official Tutorials

The following tutorials demonstrate the basic functions, features, and aspects of Packet Tracer.

Network Management Card (NMC) Password Reset Procedure

* Indicates the device uses NMC2 password reset procedure. 3.) Connect the serial cable to the selected port on the computer and to the configuration port at the UPS/Network Management

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Pick the best rack PDU for a homelab: basic, metered, and switched picks, the AC vs DC decision, and the input-plug gotcha that causes most returns.

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How to Tokenize Real Estate in 2025: A Step-by-Step Guide What do people really mean by “tokenized real estate” in 2025? At its core, tokenized real estate means turning economic rights

Smart PDU and Per-Device Power Monitoring for Your Homelab

Monitor per-device power consumption in your homelab using smart PDUs, SNMP, APIs, Grafana dashboards, and cost optimization strategies.

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Build an AI-powered second brain with Obsidian in 2026. Best AI plugins, Claude Code + MCP integration, PKM workflows, and Notion comparison.

Monitored PDU-Smart Power Distribution Units

Monitored PDU are smart solutions known to improve uptime, increase operational efficiency, reduce operating costs, lower PUE, improve energy efficiency, and increase control at the rack.

PDU Manufacturers: How to Choose the Right Power ...

Power infrastructure has become one of the most important considerations in modern data center construction. As rack power density continues to rise, selecting the right PDU manufacturers

Cisco Catalyst SD-WAN Systems and Interfaces Configuration Guide, Cisco ...

Cisco Catalyst SD-WAN Systems and Interfaces Configuration Guide, Cisco IOS XE Catalyst SD-WAN Release 17.x

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

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