

Dataprobe iBoot-PDU8A-N15

Dataprobe iBoot-PDU8A-N15 Switched & Managed PDU User Manual

Model: iBoot-PDU8A-N15

1. INTRODUCTION

The Dataprobe iBoot-PDU8A-N15 is a switched and managed Power Distribution Unit (PDU) designed for remote power control and monitoring of IT equipment. It features 8 individually controlled NEMA 5-15R outlets and a single NEMA 5-15P linecord for input power. This device allows users to remotely power cycle, reboot, or turn on/off specific devices, reducing downtime and eliminating the need for on-site visits. It integrates with the iBoot Cloud Service for centralized management and offers advanced automation features like AutoPing for network device monitoring.

2. SAFETY INFORMATION

- **Electrical Safety:** Always connect the PDU to a properly grounded power source. Do not overload the PDU beyond its rated capacity (15A input, 12A combined maximum for switched outlets).
- **Indoor Use Only:** This device is intended for indoor use in a controlled environment.
- **Ventilation:** Ensure adequate ventilation around the PDU to prevent overheating. Do not block ventilation openings.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Cable Management:** Route power cords and network cables carefully to avoid tripping hazards or damage.

3. PRODUCT OVERVIEW

The iBoot-PDU8A-N15 features a 1U rack-mountable design with 8 individually controlled NEMA 5-15R outlets. The rear panel includes the power input, circuit breakers, network port, and USB expansion ports.

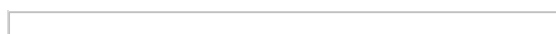


Figure 1: Rear panel view of the iBoot-PDU8A-N15, showing 8 NEMA 5-15R receptacles, circuit breakers, line cord, network port, USB-A expansion ports, and a USB-B serial port.

Key Components:

- **Line Cord (NEMA 5-15P):** Connects the PDU to the main power supply.
- **Circuit Breaker(s):** Provides overcurrent protection for the PDU.
- **NEMA 5-15R Receptacles (1-8):** Eight individually switched outlets for connecting devices. Combined maximum rating is 12 Amps.
- **Network Port:** RJ45 Ethernet port for network connectivity (Web, Telnet, SNMP, AutoPing).
- **USB-A Expansion Ports (x4):** For connecting environmental sensors or external modems.
- **USB-B Port:** Serial port for local configuration and battery backup connection.



Figure 2: Front and rear view of the Dataprobe iBoot-PDU8A-N15, illustrating its 1U rack-mountable form factor and port layout.

4. SETUP

4.1 Physical Installation

1. **Rack Mounting:** The iBoot-PDU8A-N15 is designed to fit into a standard 19-inch equipment rack. Secure the unit using appropriate rack screws.
2. **Power Connection:** Connect the PDU's NEMA 5-15P line cord to a grounded 15A power outlet. Ensure the power source is stable and within the PDU's operating voltage range.
3. **Network Connection:** Connect an Ethernet cable from your network switch or router to the RJ45 network port on the PDU.

4.2 Initial Configuration

Upon initial power-up, the PDU will acquire an IP address via DHCP (if available). You can discover the device's IP address using network scanning tools or by connecting directly via the serial port.

1. **Accessing the Web Interface:** Open a web browser and enter the PDU's IP address.
2. **Login:** Use the default username and password (refer to the device label or official documentation for default credentials). It is highly recommended to change these immediately after the first login for security.
3. **Network Settings:** Configure static IP address settings if DHCP is not desired or if specific network requirements exist.

4.3 iBoot Cloud Service Integration

The iBoot Cloud Service provides secure, centralized control and real-time power monitoring from any location.



Figure 3: Diagram illustrating the iBoot Cloud Service, enabling remote management of multiple iBoot devices globally through a single sign-on portal.

1. **Account Creation:** Register for a free iBoot Cloud Service account on the Dataprobe website.
2. **Device Registration:** Follow the instructions within the PDU's web interface or the iBoot Cloud Service portal to register your iBoot-PDU8A-N15.
3. **Remote Management:** Once registered, you can manage your PDU and its outlets from the cloud portal.

5. OPERATING INSTRUCTIONS

5.1 Outlet Control

Each of the 8 outlets can be controlled individually via the web interface, Telnet, or SNMP.

- **Power Cycle:** Turn an outlet off and then back on after a configurable delay. Useful for rebooting unresponsive devices.
- **Turn On/Off:** Directly switch the power state of an individual outlet.

5.2 Advanced Automation Features

- **AutoPing:** Configure the PDU to monitor network devices by sending ICMP (ping) requests. If a device fails to respond, the PDU can be set to automatically power cycle its associated outlet.
- **Scheduled Actions:** Set up time-based schedules to automatically turn outlets on or off, or perform power cycles. This can be used for energy management or routine reboots.
- **Event-Based Actions:** Create rules to trigger outlet actions or send notifications based on monitored conditions (e.g., temperature thresholds, network status).

5.3 Monitoring Capabilities

The iBoot-PDU8A-N15 provides comprehensive monitoring to maintain optimal operating conditions.

- **Voltage and Current:** Monitor the input voltage and current draw of the PDU.
- **Temperature:** With an optional external probe connected to a USB-A port, the PDU can monitor ambient temperature.
- **Logging:** The PDU logs events and sensor data, which can be reviewed via the web interface or exported.

5.4 Multiple iBoot-PDU Cluster Configuration

Multiple iBoot-PDUs can be managed from a single master unit. The master PDU communicates with users and continuously receives status information from other PDUs in the cluster, simplifying management of larger installations.

5.5 Telnet/Serial CLI Control

For advanced users, the PDU can be configured and controlled using a Command Line Interface (CLI) via Telnet or the USB-B serial port. The CLI offers full control over all PDU functions.

6. MAINTENANCE

6.1 Firmware Updates

Regularly check the Dataprobe website for firmware updates. Firmware updates can provide new features, performance improvements, and security patches. Follow the provided instructions carefully when performing updates to avoid interruption of service.

6.2 Cleaning

Ensure the PDU is powered off and disconnected from the main power source before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.

7. TROUBLESHOOTING

- **Cannot Access Web Interface:**

- Verify network cable connection.
 - Confirm the PDU has power and network link lights are active.
 - Check if the PDU has an IP address (use a network scanner or serial connection).
 - Ensure your computer is on the same network subnet as the PDU.
- **Default Login Not Working:**
 - Confirm you are using the correct default credentials (often printed on a label on the device).
 - If credentials were changed and forgotten, a factory reset may be necessary (see below).
- **Outlets Not Responding:**
 - Check the PDU's circuit breakers to ensure they are not tripped.
 - Verify the PDU has power.
 - Ensure the control commands are being sent correctly (e.g., via web interface, cloud service, or CLI).
- **Factory Reset:** If encountering persistent issues or forgotten credentials, a factory reset can restore the PDU to its default settings. Refer to the official Dataprobe documentation for the specific procedure for your model, as this typically involves a physical button press or a command via the serial interface.

8. SPECIFICATIONS

Feature	Specification
Model Number	iBoot-PDU8A-N15
Product Dimensions	6 x 11 x 1.75 inches
Item Weight	5 pounds
Outlets	8 x NEMA 5-15R (Individually Controlled)
Input Linecord	1 x NEMA 5-15P
Combined Max Outlet Rating	12 Amps
Rack Mount	1U
Connectivity	Ethernet (Web, Telnet, SNMP), USB-B (Serial)
Expansion Ports	4 x USB-A (for sensors, modems)

9. WARRANTY AND SUPPORT

The Dataprobe iBoot-PDU8A-N15 comes with a manufacturer's warranty. For detailed warranty information, please refer to the documentation included with your product or visit the official Dataprobe website. For technical support, troubleshooting assistance, or to inquire about service, please contact Dataprobe customer support directly.



