Secure Remote Power Control Unit ENVIROMUX®

Securely control power on/off/reboot to up to eight devices over IP

Power Control & Management

- 120 VAC and 240 VAC Models
- Switchable NEMA 5-15R or IEC 320-C13 Outlets
- On / Off / Reboot / Default Switching
- Outlet Sequencing and Power Up Delays
- Web Interface and Command Line Interface (CLI)
- Manual / Scheduled / Associated Reboot Modes
- Current / Line Voltage / Line Frequency / Power Factor Monitoring
- Normally Open (NO) Relay Contacts, or Optional Normally Closed (NC)
- Overload Protection via Circuit Breaker

Environmental & IP Monitoring

- Supports 2 Environmental Sensors (Temperature / Humidity / Water Detection)
- Monitor (Ping) up to 8 IP Network Devices
- Alert Notifications via Email / Syslog / LEDs / Web Page / SNMP

Security

Power

- Local DB or LDAP Authentication
- **TLS/SSL Secure Communications**
- SSH v2, SSL v3, AES, 3DES/DES, Blowfish, RSA, EDH-RSA, Arcfour Encryptions
- 16-Character Username/Password Authentication

• IPDU-Sx-P15(-OT3): NEMA 5-15P line cord (US)

IPDU-Sx-P15(-OT3): NEMA 5-15R outlets (US)

IPDU-Sx-P10(-OT3): IEC 320-C13 outlets (EURO)

Current Rating

In

10

15

10

Two RJ45 modular jacks for connecting NTI temperature, humidity, temperature/humidity, light intensity, and liquid detection sensors.

One 10/100 Base-T Ethernet port with RJ45 Ethernet connector.

Out

10

15

10

Location

US/Canada

Euro/UK

All

• IPDU-Sx-P10(-OT3): IEC 320-C14 inlet (EURO)

User Account Restricted Access Rights

90 to 250 VAC at 50 to 60 Hz.

IPDU-S2: IEC 320-C14 inlet

IPDU-S2: IEC 320-C13 outlets

Input connector:

Output connectors:

NTI Part #

IPDU-Sx-P15

IPDU-Sx-P10

IPDU-S2

RJ45 Sensor Ports

Network Interface

Console Port



IPDU-S8-P15 (Front and Back)

- Power On/Off/Reboot
- Environmental Monitoring:
- **Temperature, Humidity, Liquid**
- Linux Inside

The ENVIROMUX® Secure Remote Power Control Unit allows you to remotely reboot and control power (on/off) to up to eight servers or other powered devices from any location via secure web interface, RS232, SSH, or Telnet. An optional industrial unit is available for harsh environments at temperatures from -40 to 158°F (-40 to 70°C).

Specifications

USB Port (4/8-Port Models)

Female USB Type A connector for downloading log data to USB flash drive.

Environmental

- IPDU-S2, IPDU-Sx-P15/P10:
 - Operating temperature: 32° to 122°F (0° to 50°C).
 - Storage temperature: -13° to 149°F (-25° to 65°C).
- IPDU-Sx-P15/P10-OT3:
 - Operating temperature: -40° to 158° F (-40° to 70° C).
 - Storage temperature: -40° to 185° F (-40° to 85° C).
- Operating/storage relative humidity: 0 to 90% non-condensing RH.

MTBF

MTBF							
NTI Part #	MTBF (hrs)	NTI Part #	MTBF (hrs)				
IPDU-S2	183,724	IPDU-S8-P15	83,790				
IPDU-S4-P15	113,296	IPDU-S8-P10	57,051				
IPDU-S4-P10	86,017						

Protocols

- HTTPS, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, SNMPv2c; IP filtering, IPV6
- Operates and configures via HTTP/HTTPS web page, Telnet, SSH, or RS232 interface.
- Alerts are sent using email, syslog, and/or SNMP traps.
 - · Alerts are posted in event log, which is accessible through Web user interface.

Regulatory Approvals

CE, RoHS

330.562.7070 330.562.1999 International calls Worldwide fax sales@ntigo.com www.networktechinc.com

Toll Free: US & Canada



One female RJ45 port for terminal access.

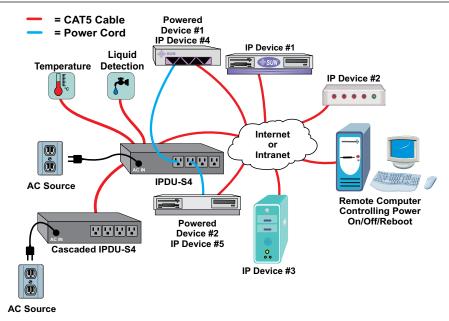
Cascade Port (4/8-Port Models) Two RJ45 modular jacks for cascading up to 16 units.

1.800.RGB.TECH (800.742.8324)

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Configuration and Cable Illustration



Ideal for data centers, co-lo sites, web hosting facilities, telecom switching sites, POP sites, server closets, or any unmanned area that needs to be monitored

Control Methods

Web Interface

- Configure, control and monitor via HTTP/HTTPS webpage.
- Configure outlet operation settings, sensor thresholds and timing, alarm methods, alert formats, sensor/IP device outlet association, and system data log.
- View outlet status, sensor values, IP device values, and alert status on one summary page.
 - View, Edit, Turn On/Off, Cycle buttons for each power outlet.
 - View and Edit sensors and IP devices.
- View entries stored in the system logs.
 - Event log records system events such as alerts, user login/logout, failed email messages, etc.
 - Data log records samples of sensor readings. User specifies sampling time period.
 - The log can be downloaded as a tab-delimited plain text file.
- Configure IP information, SMTP settings, SNMP settings, IP filtering, and user administrative settings.
- Administrate up to 15 users plus a root administrator.
- Configure permissions, schedule and alert methods for each user.

RS232/Telnet/SSH

- Configure, control and monitor over the text-based menu system accessible via RS232, Telnet, and SSH.
- Access is controlled via username/password.
- System stores encrypted login information. Two user levers: user and administrator.

LED Indicators

- 2-Port Model:
 - "POWER" (green) indicates device is powered.
 - "OUTLET" (green / red) outlet is on or off.
 - "SENSOR FAULT" (red) lights up if a sensor goes out of range of a configurable threshold.
 - "IP FAULT" (red) lights up if an IP device is unresponsive.
- 4/8-Port Models:
 - "POWER" (green) indicates device is powered.
 - "OUTLET ON" (green) outlet is on.
 - "SENSOR FAULT" (red) lights up if a sensor goes out of range of a configurable threshold.
 - "IP FAULT" (red) lights up if an IP device is unresponsive.
 - "BREAKER TRIP" (red) lights up if the circuit breaker is tripped.

Network Operation

Integrate into network management platforms with SNMP.

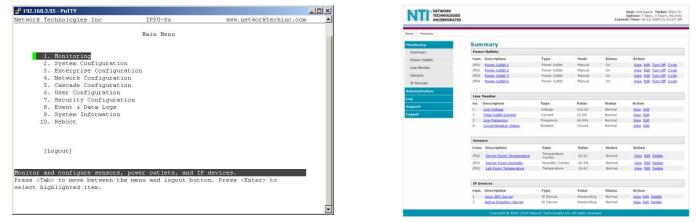


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Control Methods (Continued)

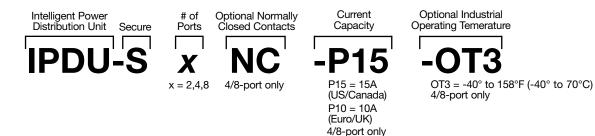


Text-Based Menu Interface Screen Shot

Web Interface Screen Shot

Ordering Specifications

This example explains the Secure Remote Power Control Unit part number by breaking it down into the available options. When ordering, choose the options that you require.



Secure Remote Power Control Unit Models					
NTI Part #	# of Outputs	Input/Output Current Capacity	Location	Desktop Size WxDxH	Rack Size WxDxH
IPDU-S2	2	10A	All	6.1x5.6x1.7 in (155x142x43 mm)	NA
IPDU-S4-P15	4	15A	US/Canada	16.2x10x1.75 in (411x254x44 mm) (without supplied rackmount kit)	19x10x1.75 in (483x254x44 mm) (with supplied rackmount kit)
IPDU-S4-P10	4	10A	Euro/UK	16.2x10x1.75 in (411x254x44 mm) (without supplied rackmount kit)	19x10x1.75 in (483x254x44 mm) (with supplied rackmount kit)
IPDU-S8-P15	8	15A	US/Canada	17.5x10x1.75 in (445x254x44 mm) (without supplied rackmount kit)	19x10x1.75 in (483x254x44 mm) (with supplied rackmount kit)
IPDU-S8-P10	8	10A	Euro/UK	17.5x10x1.75 in (445x254x44 mm) (without supplied rackmount kit)	19x10x1.75 in (483x254x44 mm) (with supplied rackmount kit)



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