Secure Remote Power Control Unit with Environmental Monitoring

**ENVIROMUX®**

Securely control power on/off/reboot to a server, router, web cam, firewall or other remote devices over IP.

- **Three operating modes for power reboot:**
  - Manual – select the outlet and turn the power on/off.
  - Scheduled – set date/time/duration of power cycle.
  - Associated
    - Power on/off a device when a sensor goes out of range of a user-defined threshold.
    - Reboot (power cycle) and control power (on/off) to unresponsive IP devices that are connected to the IPDUs power outlets.

- **Security:** HTTPS, SSHv2, SSLv3, IP Filtering, LDAPv3, AES 256-bit encryption, 16-character username/password authentication, user account restricted access rights.

- **Configure, control and monitor the unit via Web interface or Command Line Interface (CLI).**

- **Up to 3 additional IP aliases can be configured to allow remote control of the unit using different networks.**
  - No scripts required - simply add the IP address, network mask, and gateway configurations through the web interface.
  - The first network (default network) will be used for total control of the unit, i.e. inbound and outbound connections.
  - The three other networks will allow web/SSH/telnet access only, i.e. inbound access only.
  - Up to four separate networks can be plugged into a network switch that is linked to the unit to facilitate the configuration.

- **Supports two environmental sensors, including: temperature/humidity and water detection.**
  - Shut down power when high temperature and other environmental threats are detected.

- **Monitor (ping) up to eight IP network devices.**
  - Unresponsive IP devices can be configured to trigger devices connected to the IPDUs power outlets to power on/off/reboot.

- **Sends alert notifications via email, syslog, LEDs, Web page, and SNMP.**

- **Automatically configures network settings received from a connected DHCP server.**
  - If a DHCP server is not found, the default static IP address will be used.

- **Integrates with various Open Source monitoring packages - Nagios and MRTG.**
  - The unit can be polled via SNMP.
  - Meets the electrostatic discharge (ESD) immunity requirements of IEC/EN 61000-4-2
  - Features Normally Open (NO) relay contacts.

**Specifications**

<table>
<thead>
<tr>
<th>Power</th>
<th>90 to 250 VAC at 50 to 60 Hz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector: IEC 320-C14 inlet</td>
<td></td>
</tr>
<tr>
<td>Output Connectors: IEC 320-C13 outlets</td>
<td></td>
</tr>
</tbody>
</table>

| RJ45 Sensor Ports | Two RJ45 modular jacks for connecting NTI temperature/humidity and liquid detection sensors. |

| Network Interface | One 10/100 Base-T Ethernet port with RJ45 Ethernet connector. |
| Console Port | One female RJ45 port for terminal access. |

| Dimensions | WxDxH: 6.12x5.55x1.4 |

The ENVIROMUX® Secure Remote Power Control Unit allows you to remotely reboot and control power (on/off) to two servers or other powered devices from any location via secure web interface, RS232, SSH, or Telnet.
Specifications (Continued)

**Environmental**
- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -13 to 149°F (-25 to 65°C).

**MTBF**
- 183,724 hrs.

**Protocols**
- HTTPS, SSHv2, SSLv3, TLS, 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
- EN51055, EN50121-3-2

**Warranty**
- Two years

### Configuration and Cable Illustration

**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.
- Add up to 3 additional IP aliases that allow remote control of the unit through different networks.
  - No scripts required - simply add the IP address, network mask, and gateway configurations through the web interface.
  - The first network (default network) will be used for total control of the unit, i.e. inbound and outbound connections.
  - The three other networks will allow web/SSH/telnet access only, i.e. inbound access only.
- 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 levels: user and administrator.

**Front Panel LED Indicators**
- “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.

**Network Operation**
- Automatically configures network settings received from a connected DHCP server.
  - If a DHCP server is not found, the default static IP address will be used.
- Integrates with various Open Source monitoring packages - Nagios and MRTG.
  - The unit can be polled via SNMP.
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**Securely control power on/off/reboot to a server, router, web cam, firewall or other remote devices over IP.**

### Control Methods (Continued)

#### Secure Remote Power Reboot Text-Based Menu Interface Screen Shot

#### Secure Remote Power Reboot Web Interface Screen Shot

#### Secure Remote Power Control Unit Models

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<th>NITI Part #</th>
<th># of Outputs</th>
<th>Input/Output Current Capacity</th>
<th>Relay Contacts</th>
<th>Location</th>
<th>Desktop Size WxDxH</th>
<th>Rack Size WxDxH</th>
</tr>
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<tr>
<td>IPDU-S2</td>
<td>2</td>
<td>10A</td>
<td>Normally Open</td>
<td>All</td>
<td>6.1x5.55x1.4 in (155x140x35 mm)</td>
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