

PE8216r

eco PDU



As part of its NRGence line, ATEN has developed a new generation of green energy power distribution units (eco PDUs) to effectively increase the efficiency of data center power usage. The NRGence PE8216r eco PDUs are intelligent PDUs that contain 16 AC outlets and are available in various IEC or NEMA socket configurations.

NRGence eco PDUs provide secure, centralized, intelligent, power management (power on, off, cycle) of data center IT equipment (servers, storage systems, KVM switches, network devices, serial data devices, etc.), as well as the ability to monitor the center's health environment via sensors*.

NRGence eco PDUs offer remote power control combined with real-time power measurement – allowing you to control and monitor the power status of devices attached to the PDUs, either at the PDU device, bank, or outlet level, depending on the model, from practically any location via a TCP/IP connection**.

The power status of each outlet can be set individually, allowing users to switch each device On/Off. The eco PDU also offers comprehensive power analysis reports which can separate departments and locations, providing precise measurements of current, voltage, power and watt-hour in a real-time display.

In order to manage more outlets from the same single session, the eco PDU also provides daisy chain functionality; up to 5 additional units can be daisy chained. Installation and operation is fast and easy: plugging cables into their appropriate ports and user-friendly browser-based configuration and management is all that is entailed. Since the eco PDU firmware is upgradeable over the Net, you can stay current with the latest functionality improvements simply by downloading updates from our website as they become available.

NRGence eco PDU supports any 3rd party V1, V2, V3 SNMP Manager Software, NRGence eco Sensors (eco PDU Manager Software), and CC2000 Control Center Over the NET software. Eco Sensors provides you with an easy method for managing multiple devices, offering an intuitive and user-friendly Graphical User Interface that allows you to configure a PDU device and monitor power status of the equipment connected to it.

With its advanced security features and ease of operation, the eco PDU is the most convenient, most reliable, and most cost effective way to remotely manage power access for multiple computer installations and allocate power resources in the most efficient way possible.

Note:* Sensors are optional accessories. A sensor-enabled installation is required to generate a more complete energyefficient data and chart. Higher sensor installation density is helpful to generate more accurate data.

** eco PDUs are primarily designed for access via Intranet; extra network security protection is suggested for Internet access usage.



Features

- **Connections**
- Supports 10/100Mbit Ethernet, Modem, RS-232, Daisy Chain interface
- Supports TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, STP, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3, IPv6
- Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS, TACACS+, LDAP, LDAPS and Active Directory
- Supports CC2000, eco Sensors, Java API, multiple Browsers (IE, Firefox, Chrome, Safari), OOB/RS232
- **Metering**
- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting
- **Outlet Switch Control**
- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU and daisy chain level
- Daisy chain with PON In – PON Out port
- On/Off scheduling for individual outlets and outlet groups – power management tasks can be scheduled on a daily, weekly, monthly, or user-specified basis
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-On sequencing – users can set the power-on sequence and delay time for each outlet to allow equipment to be powered on in the correct order

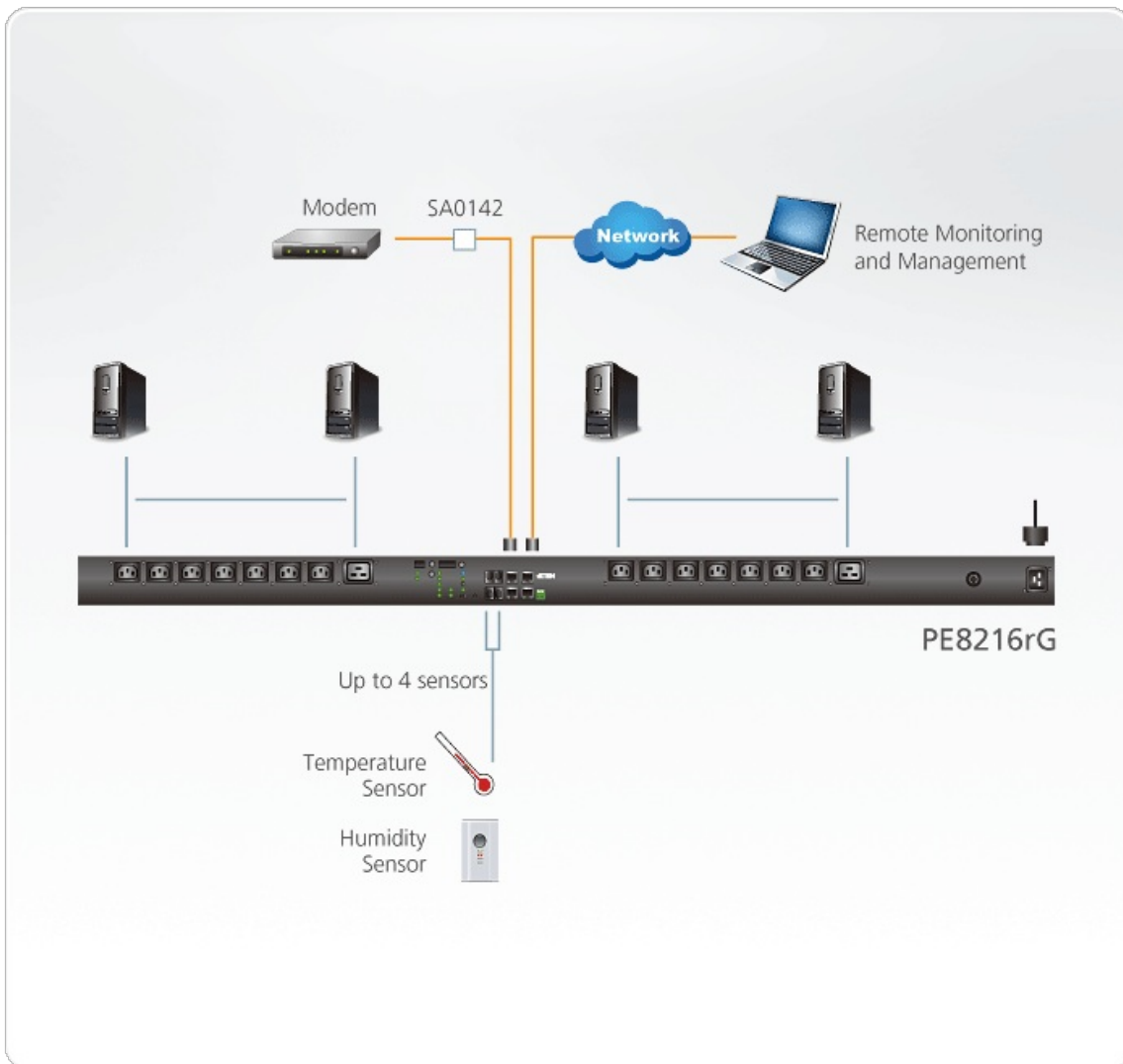
Specifications

eco PDU

| Function | PE8216rB | PE8216rG |
|---------------------------------|--|--|
| Electrical | | |
| Nominal Input Voltage | 100 – 240 VAC | 100 – 240 VAC |
| Maximum Input Current | 20A Max; 16A(UL de-rated) | 16A Max |
| Input Frequency | 50-60 Hz | 50-60 Hz |
| Input Connection | NEMA 6-20P | IEC 60320 C20 |
| Input Power | 4160 VA(Max); 3328 VA(UL de-rated) | 3680 VA(Max) |
| Outlet Type | Total: 14 x IEC320 C13 + 2 x IEC320 C19 Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19 Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19 | Total: 14 x IEC320 C13 + 2 x IEC320 C19 Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19 Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19 |
| Nominal Output Voltage | 100 – 240 VAC | 100 – 240 VAC |
| Maximum Output Current (Outlet) | C13: 15A (Max); 12A(UL de-rated) C19: 20A (Max); 16A(UL de-rated) | C13: 10A (Max) C19: 16A (Max); TUV De-rated 15A(Max) |
| Maximum Output Current (Bank) | 20A(Max); 16A(UL de-rated) | 16A(Max); TUV De-rated 15A(Max) |
| Maximum Output Current (Total) | 20A(Max); 16A(UL de-rated) | 16A(Max); TUV De-rated 15A(Max) |
| Breakers | 1 x 20A Non-Fuse breaker | 1 x 16A Non-Fuse breaker |
| Metering | Outlet Level Current, Voltage, VA, PF, KWh Monitoring | Outlet Level Current, Voltage, VA, PF, KWh Monitoring |
| Outlet Switching | Yes | Yes |

| | | |
|-----------------------------------|--|--|
| Environment Sensor Ports | 4 | 4 |
| Metering Accuracy | Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ Maximum Capacity +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1% | Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ Maximum Capacity +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1% |
| Physical Properties | | |
| Dimensions (L x W x H) | TBD | TBD |
| Weight | TBD | TBD |
| Power Cord Length | 1.6 m | 1.6 m |
| Environmental | | |
| Temperature (Operating / Storage) | 0 – 50°C / -20 – 60°C | 0 – 40°C / -20 – 60°C |
| Humidity (Operating & Storage) | 0 – 80% RH, Non-Condensing | 0 – 80% RH, Non-Condensing |
| Compliance | | |
| EMC Verification | FCC Part 15 Class A, Others by Request | CE, C-Tick, Others by Request |
| Safety Verification | cTUVus, PSE, Others by Request | TUV-CB, GOST, Others by Request |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. | |

Diagram



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