

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

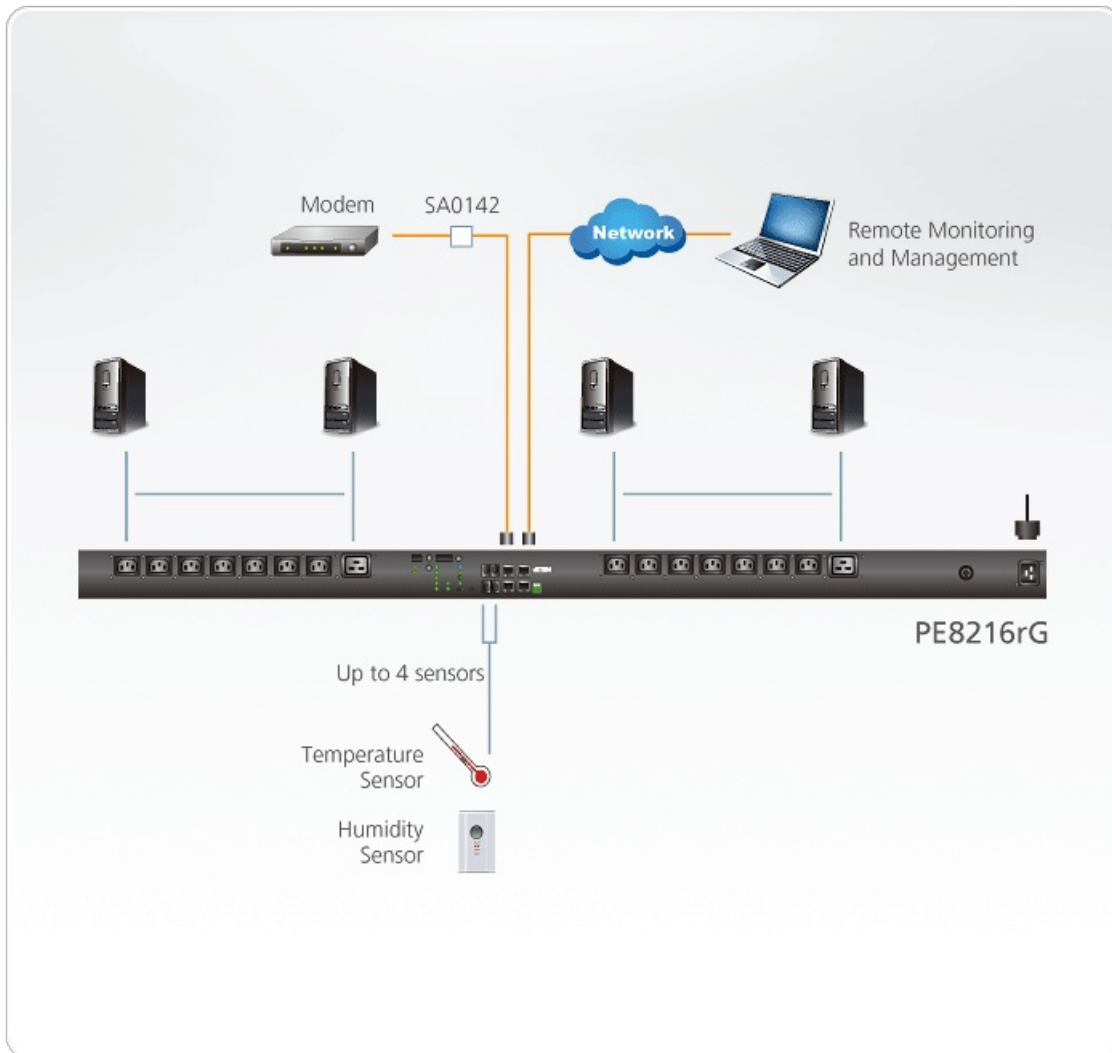
- **Connections**
 - Supports 10/100Mbit Ethernet, Modem, RS-232, Daisy Chain interface
 - Supports TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, STP, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3, IPv6
 - Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS, TACACS+, 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

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)	132.5 x 6.6 x 4.4 cm	132.5 x 6.6 x 4.4 cm
Weight	3.9 kg	3.9 kg
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



ATEN International Co., Ltd.

3F, No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
 www.aten.com E-mail: marketing@aten.com



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