Simply Better Connections

EC2004

Energy Box W/Real Time Power Monitoring



The EC2004 Energy Box is the latest evolution of ATEN's energy intelligence solutions. EC2004 Energy Boxes provides instant real-time power management and energy-saving control for data centers– allowing you to upgrade and maintain your current IT power resources quickly and cost-effectively.

The EC2004 Energy Box has four Energy Sensor ports (2 Current Energy Sensors, 2 Current/Voltage Energy Sensors) to connect to four Energy PDU modules, four Environment Sensor ports and one 4-pin dry contact Rack Door Sensor port, these external sensors can monitor environmental conditions and rack door access. Each environmental sensor can provide measured readings of temperature, humidity, and differential pressure from separate areas of a room, giving a wide range of monitoring and protection you need.

The EC2004 Energy Box features real-time status, system logs, threshold alerts, and event notifications. The EC2004 logs power and environmental conditions according to customizable minimum/maximum thresholds set for electrical current, voltage, temperature, humidity, and differential pressure.

The EC2004 Energy Box allows power and environmental data to be monitored by display at the rack or remotely for easy viewing and maintenance. The Energy Box is a standalone unit with Over IP monitoring that is controlled by ATEN´s eco DC Web GUI.

Remote monitoring offers secure access with 128bits SSL encryption, and customizable account policies for user management. Remote authentication supports RADIUS and additional management interfaces including HTTP, HTTPS, and SNMPv1&v2&v3 (Read, Write, Trap). Event notifications can be monitored via Syslog/SMTP/ SNMP trap and audible alarms for real-time local and remote alerting.

When used in conjunction with ATEN's Energy PDUs* and eco Sensors Energy Management Software*, the EC2004 allows you to conveniently upgrade your cabinet with remote energy management functionality to make your server room go green quickly and cost-effectively.

* ATEN series of low cost Energy PDUs (PE2220/PE2340) and energy management Web GUI – eco DC are available at www.aten.com.

Features

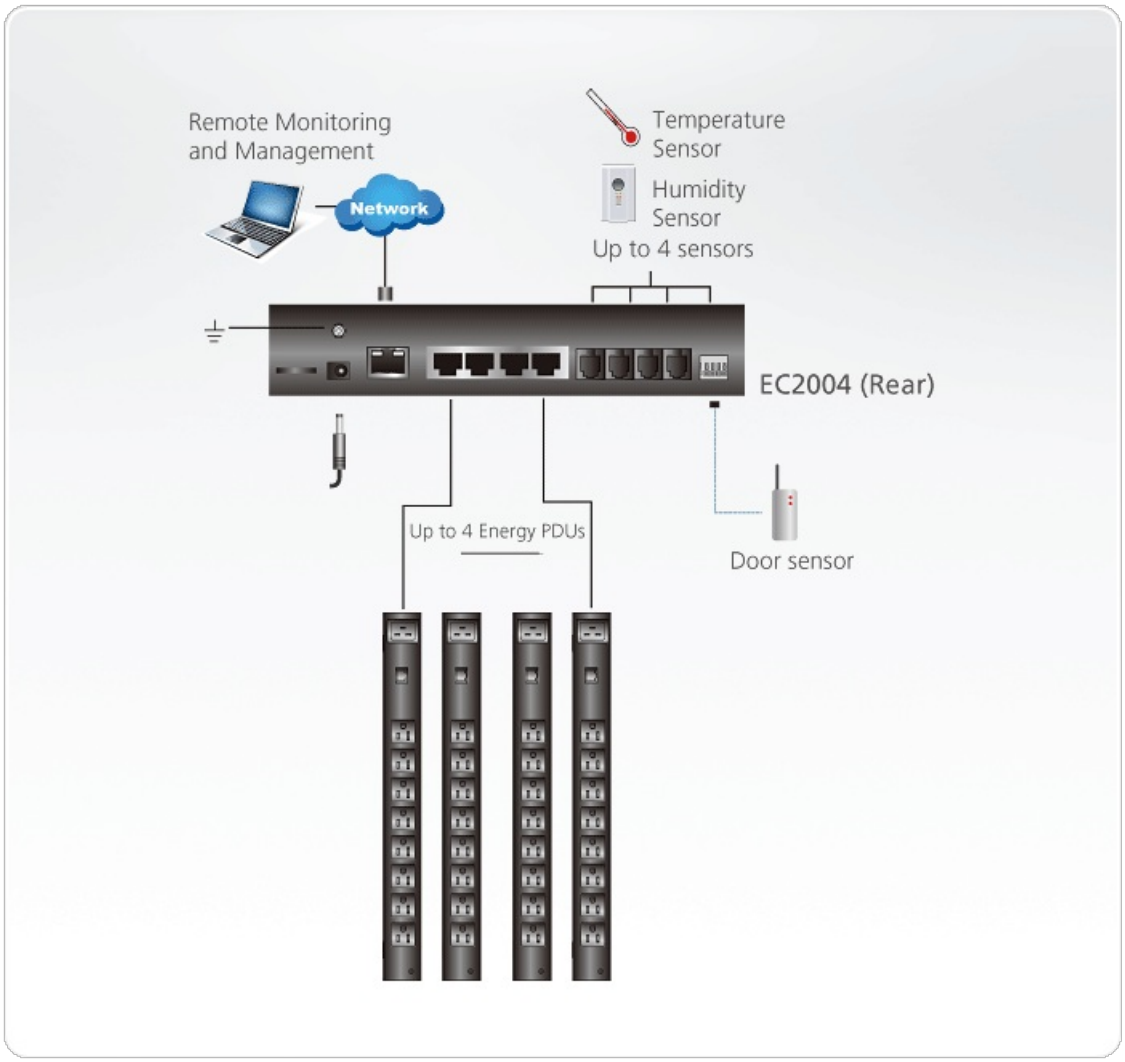
- **Operation**
- Space saving 1U rack mounting with front and rear mounting
- 4 RJ-45 Energy Sensor Ports to monitor four Energy PDU currents (0A to 32A per port, 2 Current Energy Sensors Ports, 2 Current/ Voltage Energy Sensors Ports)
- 4 RJ-11 Environment Sensor Ports to monitor temperature, humidity, and differential pressure*
- 4-pin dry contact Rack Door Sensor status monitor
- Maximum Amperage Monitor 32A @ 100V-240V (Energy Box)
- 3 digit 7 segment front panel LED displays current/sensor/IP address information
- Threshold monitoring for:
  •Current, Voltage
  •Temperature*
  • Humidity*
  • Differential pressure*
- Threshold alerting through:
  •Local: audible alarm and LED lights
  • Remote: SMTP/SNMP trap/Syslog
- **Management**
- Front panel LED indicators for current, temperature*, humidity*, differential pressure*, and IP address information at the Energy Box
- Remote real-time current/voltage, temperature*, humidity*, and differential pressure* monitoring and management
- Management through eco DC Energy Management Web GUI or 3rd party SNMP manager
- Supports name assignment for individual Energy PDUs
- Event Logging – 128 line event log
- Syslog support
- F/W upgradable
- **Remote Access**
- Remote management via TCP/IP using built in 10/100Mbps Ethernet port
- Management via built in browser based GUI
- Network Interfaces: TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, 10Base-T/100Base-TX, auto sense, Ping
- Supports SNMP Manager V1, V2, V3
- **Security**
- Strong security features include password protection and advanced encryption technologies – utilizing 128 bit SSL
- RADIUS authorization and authentication

* Requires external sensors

Specifications

Connectors	
Power	1 x DC Jack
Current Monitor	2 x RJ-45
Environment Sensor Ports	4 x RJ-11
Door Sensor	4 Pin Dry Contact
LAN Ports	1 x RJ-45 Female with LEDs (Silver/LED Orange/Green)
LEDs	
Monitored PDU Status	4 (Orange)
Port ID	1 digit 7-segment (Orange)
Energy / Environment / IP	3 (Green)
Power	1 (Blue)
Door Sensor	1 (Red)
Link	1 (Orange/Green) 1 (Green)
Switches	
Reset	1 x Semi-recessed Pushbutton
Selection	1 x Selection Button , 1 x Up , 1 x Down
Monitoring Range	100–240V~, 50/60Hz, 0A to 32A LED Display Resolution: 0.1A Voltage range: 100VAC ~ 250VAC +/-1% Power range: 100W ~ 5000W +/- 2% Current range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Environmental	0 - 50˚C
Storage Temperature	-20 - 60˚C
Operating / Storage Humidity	0 - 80% RH, Non-condensing
Housing	Metal
Physical Properties	
Weight	0.64 kg (1.41 lb)
Dimensions (L x W x H)	20.00 x 7.59 x 4.40 cm (7.87 x 2.99 x 1.73 in.)
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

© Copyright 2015 ATEN® International Co., Ltd.
ATEN and the ATEN logo are trademarks of ATEN International Co., Ltd.
All rights reserved. All other trademarks are the property of their
respective owners.