

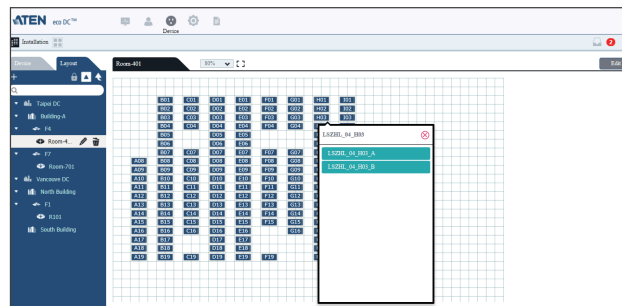
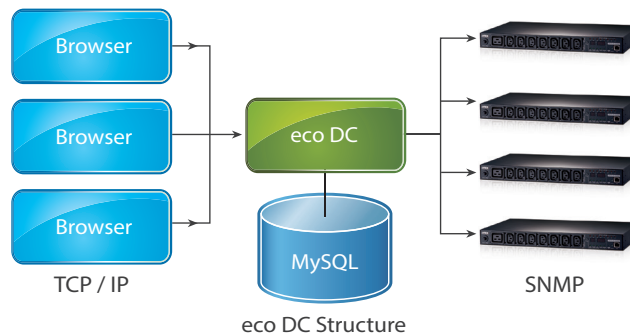
Energy & DCIM Management Web GUI

eco DC

ATEN eco DC perfectly synergizes with ATEN Power Distribution Units (PDUs) to provide an efficient way to optimize users energy needs. Administrator's data center is equipped with real-time monitoring, measurements and EnPIs analysis that produce reports of power usage and PUE to meet the ISO 50001 requirements. With these critical indexes, users will receive customized reports about the energy usage of the data center as well as energy saving suggestions, which allow users to enhance energy usage and save energy without harming the IT equipment's reliability.

eco DC is the new Web-based GUI that allows users log in to manage and control PDUs through web browser. No additional installation or setup needed. eco DC can run under any platform and OS. Users can easily manage the power consumption of the data center through intuitive interface and graphics.

eco DC is available in a Server and Client version. The Server version offers the full functionalities and is capable of managing the PDUs through SNMP and managing client nodes through TCP / IP. This allows multiple users to log in to the server node and manage PDUs in different authorized zones, making distributed PDU management much more efficient under one centralized environment. With the Client version, users can log in to a server node to monitor PDU status and control each outlet on the PDUs. Having the eco DC Server and Client version allows data centers to optimize their performance and centralize management with ease.

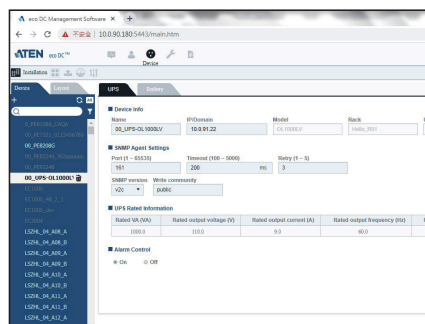


Real-time Rack Status Monitoring

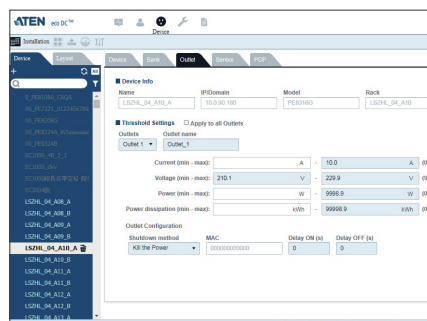
Features

- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
 - PDU level current / voltage / power dissipation / power consumption
 - Outlet ON / OFF / Recycle status
- Second window to monitor a data center's PUE, Power, Carbon Footprint and rack status
- Remote real-time power outlet management*
 - Power outlet On / Off / Cycle switching by outlet or user-defined group
 - Power outlet On / Off / Cycle switching with pre-defined schedule
 - User-defined outlet level delays for sequential power up
 - Current / Voltage / Power Dissipation / Power Consumption threshold level settings
 - User access assignment for every outlet
 - Name assignment to individual outlets
- Remote real-time environment sensor monitoring
 - Temperature / Temperature + Humidity / Temperature + Differential Pressure readings
 - Temperature and Humidity threshold level settings
- Plotting / Monitoring of all PE devices
 - Add data center server racks
 - Add PE devices for each server rack
 - Manage device / device outlet status for each plot
- Offers essential data center indices including Rack Intake Temperature, Rack Exhaust Temperature, Rack Equipment Temperature Difference
- Power analysis report for optimizing data center energy management – including power usage, power load, power cost, CO2 cost, power capacity and trends
- Exceed threshold alert through SMTP and System Log
- 1024 line event log
- System log provision
- Two-level password security
- Strong security features include password protection and advanced encryption technologies – 128 bit SSL
- Supports online UPS and SNMP Card
- Real-time status charts for Current / Voltage / Wattage remote monitoring

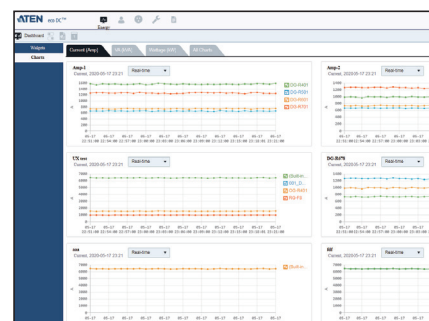
* Not all functions are supported by all eco PDU PE models. Please visit www.aten.com for more details.



Online UPS



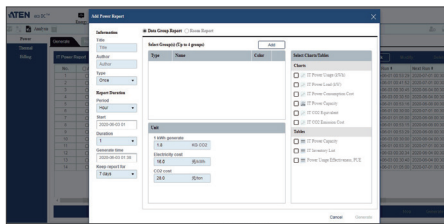
eco DC: Power Control



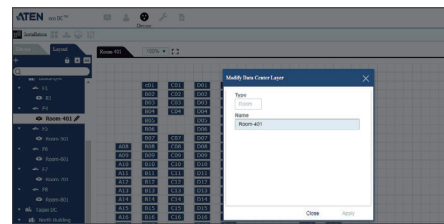
Real-time Status Charts

Highlights

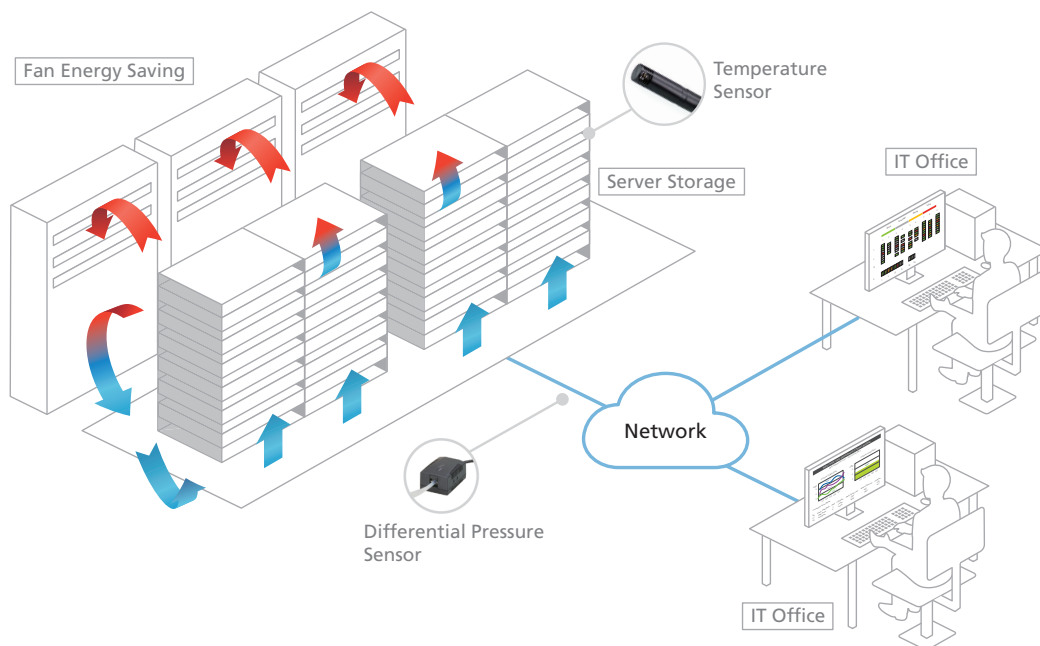
Power Measurement and Scheduling by Zone	eco DC allows users to group racks in up to 128 zones and define specific areas that users wish to get readings for. Administrators can schedule power on & off by zone and monitor real-time stats with data such as peak and average power usage per zone.
Power Analysis Report	eco DC offers comprehensive power analysis reports, which can be segmented by departments and locations. It displays trending charts in real-time or according to the day, month, year, or grasps the power consumption needs of each season. By knowing the actual power consumption trends with easy to read charts, administrators can allocate energy resources and prevent wasted power capacity.
Optimum Data Center Energy Management	When used in conjunction with sensor-enabled eco PDUs, eco DC provides administrators with dynamic power analysis to protect IT equipment from excess heat or insufficient power capacity.
Fan Energy Saving & Chiller Energy Saving	eco DC provides real-time power measurements and environmental monitoring of a data center from a variety of locations including: at the zone, rack, device or outlet level. By generating customized reports about user's data center's status, administrators can evaluate the Fan Energy Saving & Chiller Energy Saving potential. With this information, administrators can quickly analyze and confirm how long it will take to recover the cost of investing new energy resources, and confirm the return on investment.



Energy Report



Zone Setting



● Network

Functions

			eco DC
Energy	Dash Board	Real-time monitor of power usage, temperature and humidity	•
	Power Control	Monitoring PDU status and control power outlets	•
	Group Control	Controlling power outlet by group	•
	Power Analysis	Power usage analysis by hour, day, month or quarter year	•
	Thermal Analysis	Thermal analysis by hour, day, month or quarter year	•
User	Account	Account management, access rights by function, device and group	•
Device	Zone Define	Defining data center zone	•
	Rack Install	Installing server rack in data center	•
	Device Setup	Setting up PDU or Energy Box in data center	•
	Define Data Group	Defining data group for report analysis, group control and schedule control	•
	In-Synergy Gateway	Supporting external gateway for CT meter	N / A
System	Sys Settings	System parameters, SNMP and SMTP Settings	•
	Maintenance	PDU and Energy Box firmware upgrade	•
	Database	Database settings, capacity management, import/export, configuration, backup/restore	•
	Task	Scheduling group outlet control and configure backup	•
	Billing	Electricity billing report	•
Log	System Log	Viewing system log	•
	Log Options	Log settings	•
	Events	Event settings	•

Hardware Requirements

			eco DC
		Server Version	Client Version
Operating System		Windows 7 / Windows Server 2008 and later	
CPU		2.5 GHz Quad Core	2.0 GHz Dual Core
Display		Larger than 1440 x 900	
Memory		8 GB	4 GB
Disk		1 TB	N / A
Network		1 Gbps Ethernet	

System Parameters

	eco DC
(Max) Accounts	1024
Concurrent Logins	32
(Max) PDUs	3000
Data Center Layouts	45 x 30
(Max) Racks	3000
(Max) Zones	128
Power Report History	At least 3 years
Real Time Dashboard Data	N / A

ATEN International Co., Ltd.

3F, No.125, Sec. 2, Datung 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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