

Overview

Intelligent power and energy management solutions allow Data Center Operations Managers, IT Administrators and Facilities Managers to reduce costs and improve efficiency, uptime and capacity planning.

We have five options of PDUs to meet requirement of the industry & plug & play sensors to make the IT manager life easy.



Environmental Sensor



Features

- Real-time PDU-level and outlet-level monitoring of power
- Remote PDU-level and outlet-level power switching
- Rack temperature and humidity monitoring
- Solutions that help IT administrators and facilities managers improve uptime and staff productivity
- Efficiently utilize power resources
- Make informed capacity planning decisions
- Save power and money
- Take a step towards becoming a more green data center
- PDU-level and outlet-level power switching
- RMS current and power metering, locally and remote, at strip and outlet level
- Temperature and humidity probe options
- History function for highest current used
- Alerts and traps (SNMP, SMTP, Syslog)
- Web interface (HTML)
- IPMI 2.0, SMASH-CU
- SNMP alerts controls
- Modern circuit breaker and soft breaker
- 256-bit AES encryption hardware core
- User authentication via LDAP, MSAD, CCSG
- SSH CLI

Features	Outlet Metered, Outlet Switched (PX-5000)	Outlet Metered (PX-4000)	Inlined Metered (PX-3000)	PUD Metered, Outlet Switched (PX-2000)	PDU Metered (PX-1000)
Compatible with Power IQ	✓	✓	✓	✓	✓
Power Metering	Output, PDU	Output, PDU	Circuit, Line	PDU	PDU Metered (PX-1000)
Outlet Mapping to KVM for Switching	✓			✓	
Environmental Monitoring (e.g temperature humidity)	✓	✓	✓	✓	✓
User Management (e.g permission Action Directory)	✓	✓	✓	✓	✓
Thresholds and Alerts	✓	✓	✓	✓	✓
SNMP	✓	✓	✓	✓	✓
Web Browser	✓	✓	✓	✓	✓
Remote Access	Serial Ethernet	Serial Ethernet	Serial Ethernet	Serial Ethernet	Serial Ethernet



Overview

For data center and lab managers who are concerned about the utilization and the cost of power, Power IQ enables you to reduce capital and operating expenditures by providing the information and controls you need to be more energy efficient and fully utilize your existing power infrastructure.

Through one Web browser, the scalable Power IQ manages any SNMP-metered device. You have the ability to add new devices on your own. Support is preinstalled and tested for APC®, Avocent®, BayTech®, Cyber Switching®, Cyclades®, Eaton, Geist, HP®, Knurr®, Liebert, MRV®, NetBotz, Raritan, Rittal®, Server Technology®, Sinetica, Starline Track Busway, Tripp Lite and UNITE™.

Efficiently Utilize Energy

Power IQ provides you with valuable information and automated control that can help you gain efficiencies in the data center right away, including:

- Baseline energy consumption and track changes by IT device, rack, zone, customer, department and data center
- Easily seeing if you are operating within industry-accepted – and server manufacturers' recommended – temperature and humidity ranges
- Estimated savings calculation from increasing temperature to upper limit of recommendations
- Temperature threshold alert monitoring and trending, to safely manage environmental conditions
- Energy cost billback reports with one click
- Remote power on/off outlet groups
- Agentless graceful shutdown of system operating systems

Make Informed Capacity Planning Decisions

Power IQ supplies actual load of IT devices under computing stress to provide you with better planning information.

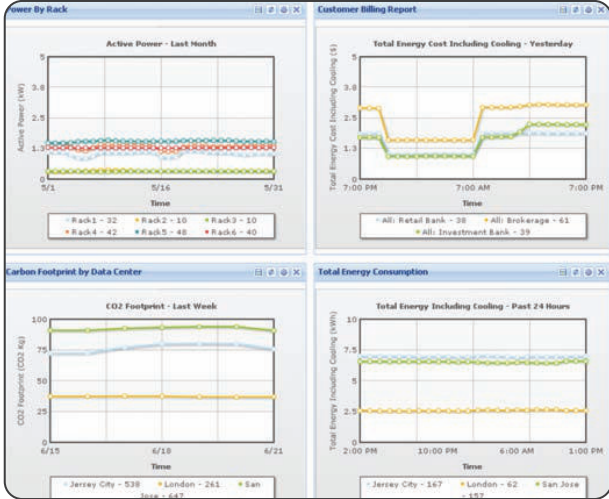
- Collect short- and long-term data and compare to rated capacity to update design assumptions
- Monitor trends, alerts and threshold violations to understand future needs
- Power capacity meter will provide you forecasted "days of energy supply"

User-Configurable Energy Management Dashboard

- Display on large screen in slide show mode with real-time updates
- Configurable size, layout and charts
- Display power and environmental health, energy capacity and consumption, weather services, maps, video and much more

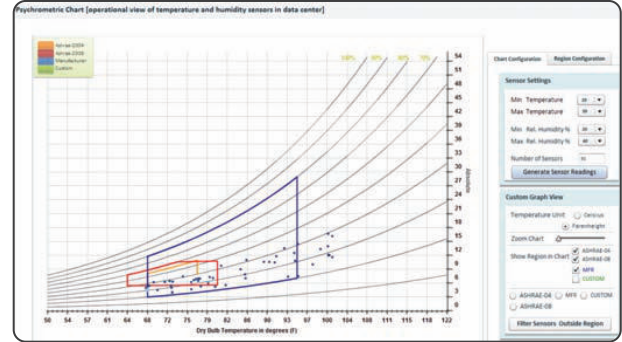
Power and Energy Analytics

Create an unlimited number of charts, such as active power by rack, carbon footprint by building, department billback and total energy consumption.



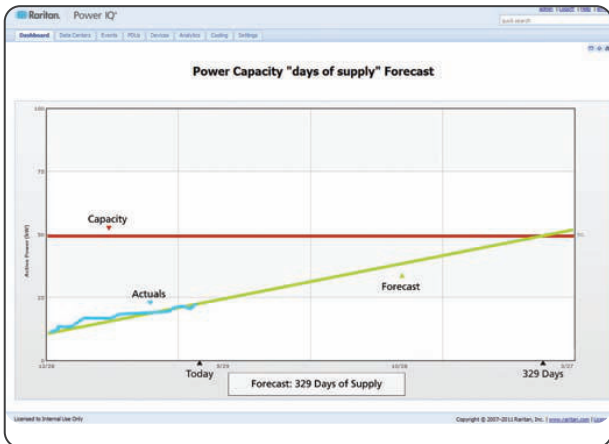
Cooling Chart

Understand if you are compliant with manufacturers' and industry-accepted recommendations, and project how much you can save by increasing room ambient temperatures.



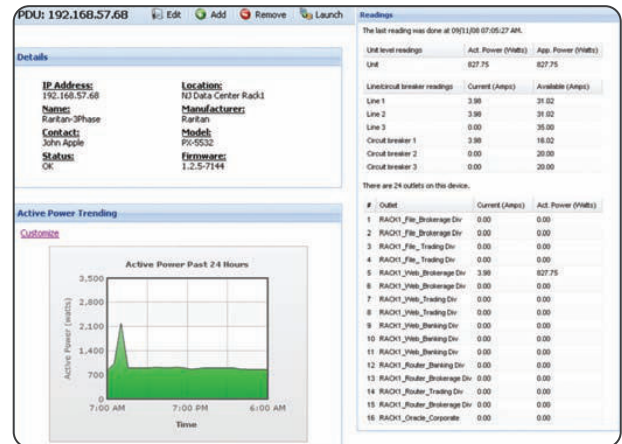
Power Capacity "Days of Supply" Forecast

Create an unlimited number of charts, such as active power by rack, carbon footprint by building, department billback and total energy consumption. Understand your real-time power load, rate of change and forecasted trends at all levels of your infrastructure with our capacity forecast charts.



PDU Page

View details about the PDU, such as manufacturer, model, serial number, firmware, voltage and current ratings, location and status.



Overview

Trends towards consolidation and higher-density computing configurations increasing the requirement of climate monitoring today. NetRack along with Raritan and EMKA offer different options.

Display based Monitoring system to monitor temperature, humidity and smoke, with inbuilt capability for further automation like fan control with set points and alarming. Standard configuration include 5 sensor inputs (3-temperature 1 Humidity & 1 smoke) 2 relays out puts (Hooter and Fan Control)



Central Control / Display Unit

Features

- Monitors the temperature, humidity & smoke inside the enclosure out put to alarm relay and one additional relay out put for further automation / Trip /
- Fan control with set point
- Temperature and Humidity can be set for low and high value
- Smoke detection and alarming
- Audio-Video Alarm (Audio-Buzzer and Video-Fault Type on Display Unit) in the event of fault



Sensor Humidity & Temperature



Sensor / Smoke

Model Matrix

Description	Part No.
Central Control unit /1U	CMM-CU-1
Sensor / Temperature	CMM-S-T
Sensor / Humidity	CMM-S-H
Sensor / Smoke	CMM-S-S
Smoke Detector / Hooter	SD-H
Fan Control Unit / Temperature	FCU-T-001

Climate Monitoring on IP

Raritan
Know more. Manage smarter.™




Feature Port for Temperature & Humidity Sensor



Environmental Sensor

IP based Climate Monitoring (Temperature & Humidity), along with Intelligent Raritan PDU and sensor modules

EMKA[®]
Beschlagteile



IP based complete Electronic Locking & monitoring climate monitoring along with EMKA Rack Monitoring Systems

Smart Rack Controller (EMX) from Raritan



Raritan's environmental rack controller is an IP-based appliance that allows you to use any of Raritan's sensors such as temperature, humidity, air pressure and airflow

- Works with Raritan's Power IQ[®] energy management software and dcTracke[®] DCIM software
- Up to 16 sensors per EMX2-111
- Up to 128 sensors per EMX2-888
- Wired or wireless network options
- USB camera option

Environment Sensors

- Temperature
- Humidity
- Airflow
- Air pressure
- Contact closure enables use of additional sensors, including water, smoke, door open/closed and door locked.

