Eaton Power Distribution Communications

The Power Inside the Box

F·T·N

Powering Business Worldwide

Celebrating
100 YEARS
Ideals that Endure

White Space Power Distribution Solutions

Fueled by the rapid rise of technologies such as virtualization and blade servers, computing densities in today's data centers are climbing dramatically. As a result, server enclosures are requiring more power than ever before and demanding effective, efficient power distribution, which is essential to managing power capacity.

Eaton's power distribution products:

- Power Distribution Rack (PDR)
- Power Distribution Unit (PDU)
- Remote Power Panel (RPP)
- Rack Power Module (RPM)

Eaton's power distribution products provide efficient distribution through:

- Flexible power distribution with up to 168 factory-installed branch breakers in a highly compact footprint
- Panelboards with 400A panel main breakers
- Branch circuit monitoring up to 100A per branch circuit
- Air skirts
- UL1449 SPD
- Additional subfeed breakers to main cabinet and sidecars
- Direct connection to panelboards with BCMS option
- Selectable panel location
- Available Eaton Energy Management System Upgrade Kit to extend branch circuit monitoring capabilities to existing equipment, regardless of manufacturer.

Power distribution unit

With Eaton's power distribution products, packed with Eaton's Energy Management System, understanding your facility's power distribution has never been easier.
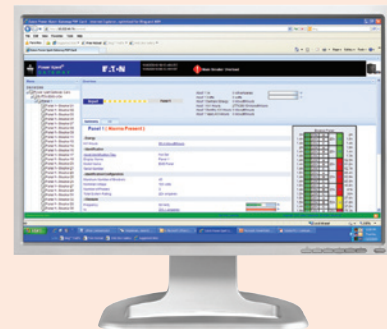

Eaton Power Distribution Products with Ethernet Connectivity

Expanded solution:
Bring the information from your power distribution products to your desktop

The Power Xpert® Gateway PDP card allows you to connect your Eaton power distribution products directly to your Ethernet network and the Internet. With its built-in Web server the Power Xpert Gateway PDP card provides power distribution products' (PDP) information remotely, without additional software.

Benefits of monitoring with a Power Xpert Gateway PDP card:

- Remotely monitor and record energy usage data to reveal opportunities and verify results of efficiency improvements
- Configure the Energy Management System through graphical, easy-to-navigate screens rather than fumbling through a small LCD display
- Web-enabled monitoring of power quality data down to the branch circuit level allows for safely tagging and monitoring individual circuit information
- Automatically maintains data, interval and event logs with time stamp for power and energy analysis
- Ability to integrate your PDP into existing Building Management or Network Management systems including Power Xpert Software monitoring software
- Expands your PDP's LCD display to a fully-graphical, Web-enabled, remote monitoring system

Data center floor

Benefit: Gives you instant knowledge about your PDP's status without being in the room, or even the building.

Eaton Power Distribution Products
with Eaton Power Xpert Software

Powerful Solution:
Bring all of your equipment together

Once your data center power distribution and back up equipment is on the network via a Power Xpert Gateway PDP or UPS card, data can be centralized and analyzed with Power Xpert Software. Through this monitoring software, a more comprehensive system view of all your Eaton electrical and other third-party equipment is possible.

Benefits of monitoring your entire power system together:

- Monitor your entire data center or power system, down to the branch circuit level, giving you the big picture of power quality and energy usage to proactively address issues
- Graphical and at-a-glance user views allowing simultaneous monitoring of multiple power distribution products, UPSs and other equipment
- Configure and monitor the optional EMS system
- Superior alarm and event management
- Web-based system – provides not only a system for multi-users, but also the convenience and safety of viewing data otherwise collected from many units, directly from a desktop
- Reduces site monitoring and maintenance expenses as a distributed network solution
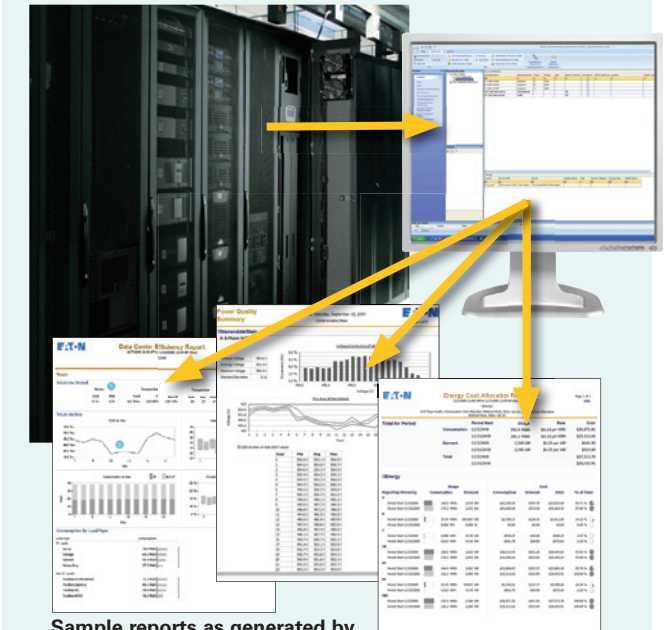
Benefit: Expands your view from individual equipment to monitoring all your equipment at one time, on one screen.

Eaton Power Distribution Products
with Eaton Power Xpert Software and Reporting

Complete Solution:
Bring it full circle from power distribution through operational knowledge

Power Xpert Reporting takes your power distribution, data center, and site monitoring to the next level. It allows you to see past individual measurements, trend graphs, and events. It analyzes the complex data from multiple sites and boils it down to what's really important, automatically consolidating the information into easy-to-understand graphical reports.

Sample reports as generated by Power Xpert Reporting

Benefits of adding a reporting system:

- At-a-glance analysis information, quickly see
  - power capacity reserves
  - potential high-power users
  - where power is consumed and usage patterns
  - current, voltage, and harmonic power quality event patterns and reoccurrence trends over time
  - temperature and humidity readings
- Know your PUE and DCiE immediately and how they change with energy saving efforts
- Know your IT vs. non-IT energy consumption
- Ten report templates – meeting various power, energy and green reporting needs
- Assistance with LEED certification

Benefit: Allows you to know exactly what your data center, as a whole, is doing with energy, compare that to other departments, and see the results of your energy savings efforts.

The products we offer to keep your business running

Eaton's power quality portfolio encompasses a comprehensive offering of power management solutions from a single-source provider. Eaton power distribution products are designed to deliver power distribution solutions and a low total cost of ownership.

The communication you need for peace of mind

You are now operating with state-of-the-art Eaton power distribution products, however, that's not the end of what you need. You need to keep a watchful eye on the status of your power infrastructure, which can make the difference between a simple, quick fix and a rapidly cascading series of events.

Without connectivity, your power distribution products are operating in a vacuum. You can't see how they are doing or if there's a problem unless it starts making noise; noise you can't hear unless you're in the room. Adding connectivity to your power distribution products allow remote monitoring and user-defined, email alarms to take care of issues, before they become problems.

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