Intelligent Power Manager Infrastructure

Simplified IT-centric monitoring





Make more effective management decisions with intelligent power, space and environmental condition monitoring.

When you can see and understand the power, space and environmental constraints in your data center, it's easier to plan change, anticipate challenges and make more informed and effective management decisions. That's the power that the new Eaton Intelligent Power™ Manager (IPM) Infrastructure gives you.

Embedded within an Eaton Intelligent Power Controller, the new IPM Infrastructure software provides data center managers with an easy to use and simple to deploy infrastructure monitoring solution.

From the rack view to the data center dashboard, IPM Infrastructure allows IT professionals to understand and monitor data center power, environmental and physical capacity metrics, all within the context of their IT infrastructure.

With the flexibility of the 42ITyTM (www.42ITy.org) Open Source data center monitoring software stack, Eaton IPM Infrastructure simplifies complexity – so you can focus on what really matters.

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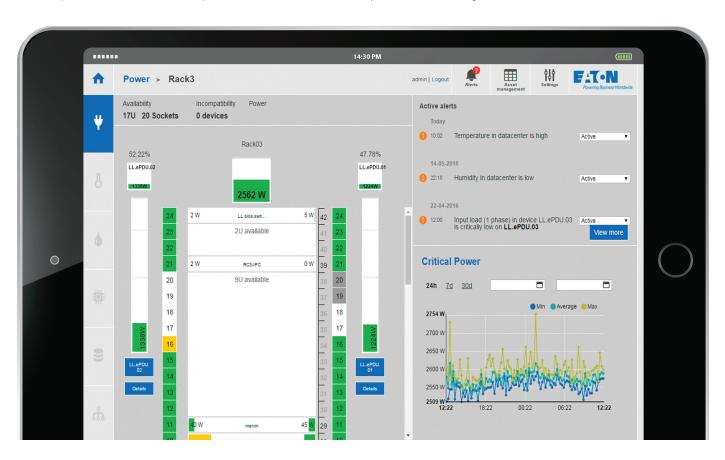


Environmental monitoring including temperature and humidity with more functionality to follow

Simple IT asset management including business prioritization capabilities

Power chain monitoring including power kW, energy consumption (kWh), phase and circuit balancing

Trending analysis via an intuitive web interface with auditable logs and email alerts



Understanding your infrastructure

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IPM Infrastructure gives you a unique insight into what's happening in your data center.

Its power chain monitoring capabilities keep you informed about power usage (kW) and energy consumption (kWh), in addition to phase and circuit balancing. Environmental monitoring covers temperature and humidity while IT asset management helps you manage business prioritization.

All the information gathered from these inputs is reported via an intuitive web interface, with email alerts.

Simple and centralized

IPM Infrastructure has been designed from the start to be easy to use. As a powerful monitoring solution, it has a number of valuable features which make comprehensive data center monitoring intuitive, simple and centralized.

Intuitive, drill-down interface

Easily understand physical infrastructure constraints within the context of the IT infrastructure.

Centralized management appliance

The Intelligent Power Controller acts as a local, centralized repository. It is accessible via the network through a powerful, intuitive and responsive HTML5 / AngularJS web interface or SSH.

Simplified capacity management

See and understand the physical infrastructure's available capacity at a glance. Space, power and environmental metrics provide essential information for ensuring business continuity and maximizing IT device operating lifetimes.







Real-time intelligence

By providing you with real-time information, IPM Infrastructure enables quick and effective responses to events, to reduce MTTR (Mean Time to Repair).

Real-time monitoring and graphical trending analysis

Real-time device monitoring provides instantaneous visibility of the state of your physical infrastructure and its constraints.

Alert notification

Email, and email to SMS gateway alerts, ensure you are informed of critical alerts in real time.

Trends and evolution

Key power and environmental data is conveniently stored, and converted into easy to use in-application trend indicators and graphs. This means you can better understand how your data center capacity is evolving over time.

Load balancing

By automatically tracking power draw from the UPS through the rack power distribution, IPM Infrastructure helps you to ensure the load is equally distributed across all phases at all times.

Diversity, interoperability, support

You can rely on IPM Infrastructure to support whatever devices you currently operate.

Multi-vendor device support

IPM Infrastructure supports Eaton power devices out of the box, but is based on the 42ITy™ open source project, enabling us to provide vendorneutral data acquisition via the NUT open source engine (www.networkupstools.org). Multi-vendor device support is provided via the SNMP protocol.

Extreme support

If we don't support your SNMP power device out of the box, we'll build a new driver configuration within 72 business hours of receiving your complete device profile information.

Integration

Open RESTful API facilitates third-party application integration.









Data Center Dashboard:

Understand your data center. All the key KPIs you need for peace of mind.

- Total DC energy consumption
- Data Center Temperature
- Data Center Humidity Power availability KPI
- Trends on all KPIs
- Alert summary

Data Center Power Chain view:

Master your critical powe consumption and extrapolate future usage trends.

- Simplified power chain
- UPS overview including phase detail
- Total power consumption per rack
- Total critical power consumption
- Historical power trend graph
- Alert summary

Rack level:

Where IT and Power meet. Understand the intersection of power and physical capacity at a glance.

- Available capacity outlet and U space
- Installed devices
- Total rack power consumption
- · Power consumption per rack PDU
- Feed balance
- Outlet identification per device
- Historical power trend graph
- Alert summary

Simplified asset management:

Manage the lifecycle of your IT devices

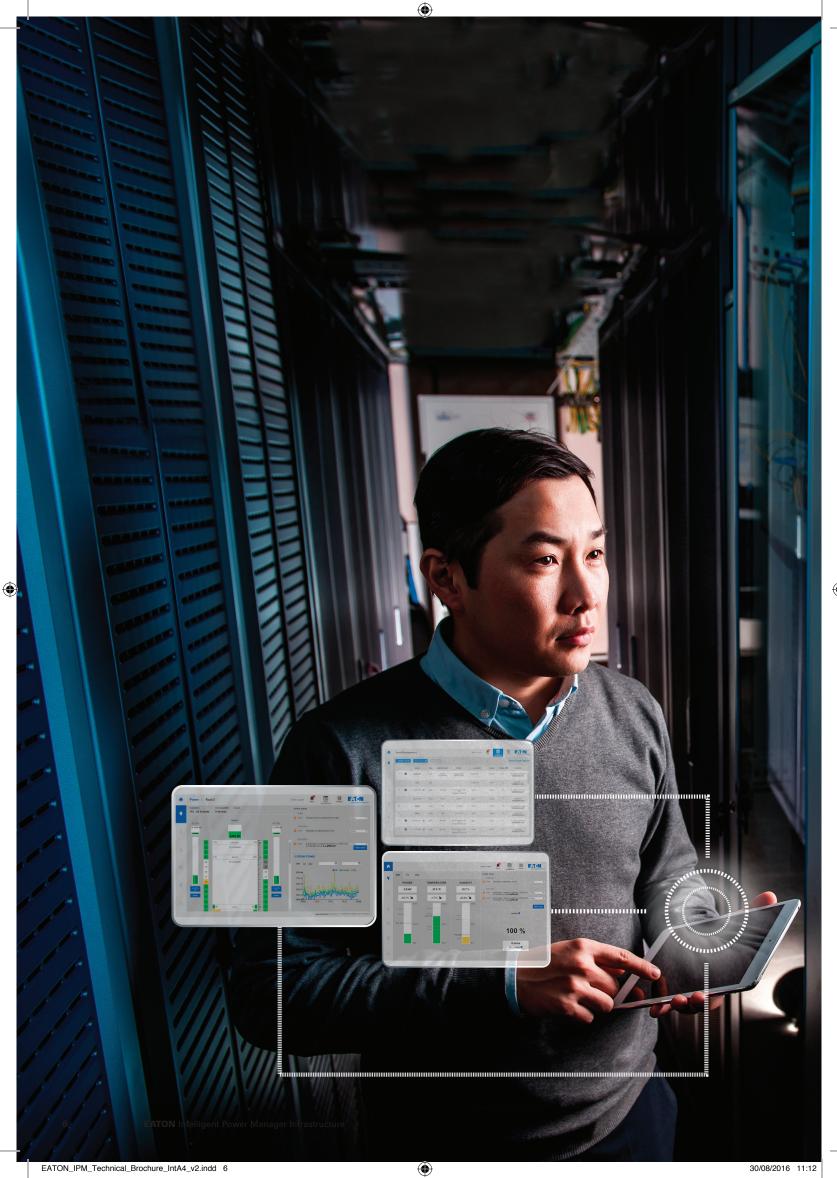
- Installed devices
- Contact details per device
- Business priority per device
- Simple alert notification per device
- Warranty details per device with alert capability
- Import / Export to .csv





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EATON Intelligent Power Manager Infrastructure





Technical Specifications

Intelligent Power Controller 3000

Intelligent Power Controller	r 3000		
Processing and storage charac	cteristics		
CPU	1GHz Dual Core ARM processor		
Boot Flash storage	128 MB		
Mass storage	4 GB SD Card		
RAM	1 GB		
Power connections			
Input	2 x IEC C14 redundant power connectors		
Cables	2 x 2m C13 – C14 power cables included		
Communication connectors			
Ethernet ports	2 x front facing RJ45 10/100/1000 Ethernet for redundant monitoring network connectivity		
·	1 x rear facing RJ45 10/100/1000 Ethernet for rack PDU data aggregation		
USB ports	4 x USB ports, including 1 x powered 5V/2A		
RJ45 Serial ports	4 x RS232 T&H ports with EMP001 auto configuration capability		
	8 x RS232 serial ports for future monitoring probe aggregation or device monitoring		
	4 x RS232 / RS485 software selectable serial ports for select 3rd party Modbus T&H sensors		
Service console port	1 x DB9 serial service port		
Dry contact	10 x dry contact terminals for dry contact sensors		
Relays	5 x output relays, 12V		
Indicators / Display			
LED indicators	2 x Power Feed Status LEDs, 1 x Network Status LED, 1 x Device Power Status LED, 1 x Service Status LED, 1 x Heart Beat LED		
Display	1 x Monochrome LCD		
Dimensions H x W x D / Weigh	ht		
IPC3000 dimensions	42 x 300 x 211 mm		
IPC3000 weight	2.2 kg / 4 lbs		
Housing	Rack mount; 1U, ½ width		
Operating Conditions, standard	d and approvals		
Operating temperature	Maximum 50° C continuous, for indoor operation only		
Operating humidity	Maximum 90%		
Noise level	Fanless		
Safety Approvals	CE ; cTUVus		
Integration			
Open REST API	HTTP/HTTPS RESTful API for integration with 3rd party applications		
Protocols			
Supported network protocols	TCP/IP, HTTP, HTTPS, SNMPv1, SNMPv2c, DHCP, DNS, SSH		
Graphical User Interface			
Browser support	Desktop: Most recent versions of modern web browsers including MS Internet Explorer, Chrome, Firefox, and Safari Mobile: Most recent versions of modern mobile web browsers		
Technology	Fully responsive, HTML 5 & AngularJS client application		
Customer Service and Support			
Hardware warranty	2 Year		
Software	Free 1 Year IPM Infrastructure Software Subscription included		
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Accessories

Product Code	Description	Status	Image
EMP001	Temperature and Humidity Sensor	Available	•
DCS001	Door contact sensor	Future	•
WLD012	Water leak detector	Future	•
VIB001	Vibration detector	Future	•
SMK001	Smoke detector	Future	•
PIR001	PIR motion detector	Future	•















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This product includes software released under multiple open source projects under various licenses including BSD licenses, and developed by various projects, peoples and entities, such as, but not limited to: the Regents of the University of California, Berkeley and its contributors:

- the OpenEvidence Project,
- · Oracle and/or its affiliates
- the 42ITy project (www.42ITy.org)
- the NUT project (www.networkupstools.org).



Open Source . Initiative

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

In order to access to the complete and up to date copyright information, licenses and legal disclaimers, please refer to the Legal Information pages, available from the HTML user interface of the present product.





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