

# Manage your Education power infrastructure smarter with Eaton



*Powering Business Worldwide*



# Differentiate with superior technology

As an IT professional in Education sector, faculty and students rely on your network and technology to create an “anytime, anywhere” digitally-enabled learning environment. By divesting your old technology and reinvesting in standardised and cloud-based services and architectures you can leverage cutting-edge technology to strategically differentiate your institution to attract and retain students and faculty. Eaton can help you build an intelligent power infrastructure that alleviates key IT roadblocks freeing up the resources needed to execute these game-changing initiatives.

## What could you be focusing on when you don't need to worry about system downtime?

- ✓ **Enhancing learning processes by**
  - Ensuring a digital learning pathway
  - Creating scalable, learner-centric technology architecture
- ✓ **Automation and single sign-on**
- ✓ **Bolstering wireless capabilities**

## Some of the challenges you may face preventing you from advancing these technologies include:

- ✓ **Budget constraints**
- ✓ **Lack of time**
- ✓ **Platform cross-compatibility in mixed-use environments**
- ✓ **Downtime**
- ✓ **Slow adoption by faculty**

Eaton's power management solutions will save you time, money and reduce your risk of downtime, allowing you to create a highly available network that enriches the educational process and empowers students, faculty and staff through instant and continuous access to technology.



**Save time**  
by remotely and automatically remediating power issues



**Save money**  
by avoiding costly downtime and data loss



**Reduce risk**  
by implementing a business continuity plan





# Powering infrastructure where it's needed

Eaton offers reliable, efficient and safe power management solutions that ensure your network and connected equipment remain available in your "always-on" environment.



Eaton offers a wide range of solutions. Consult your local sales person for configurations.

## Organise

Keep servers, switches and storage safe and secure with:

- IT Racks
- Cable management
- Rack PDUs

## Protect

Provide clean, reliable and redundant power with:

- Rackmount UPS
- Extended battery module
- Maintenance bypass module
- UPS service

## Manage

Monitor, control and automate your power infrastructure with:

- **IPM Understand Edition** - monitor and view critical power, environmental and capacity metrics in context
- **IPM Manage Edition** - manage Eaton power devices and define basic business continuity policies
- **IPM Optimize Edition** - manage Eaton power devices and define advanced, automated business continuity policies for Eaton and select 3rd party UPSs

## Applications

Areas within your campus that we can help include:

- 1 Security**  
Safeguard cameras, video surveillance monitors/equipment, lighting in camera-protected areas, badge-entry and electronic locking door systems with:  
• 5P/5PX UPS (Uninterruptible power supply)
- 2 Point-of-sale**  
Protect financial transactions at your student union, book store, cafeteria, stadiums/arenas, parking decks and administration/registration buildings with a 5SC UPS
- 3 Digital learning technologies**  
Avoid unplanned disruptions to your computer labs, digitised testing, in-class technology and online courses with a Ellipse ECO/ Ellipse PRO UPS
- 4 Network closet**  
Improve network uptime, protect power over ethernet (PoE) devices, automate remote management and reduce clutter with:  
• IT Racks  
• Cable management  
• 5PX / 9PX UPS  
• Intelligent Rack PDU (ePDU G3)
- 5 Data centre**  
Organise and protect your IT equipment and increase monitoring and management capabilities of your distributed power infrastructure with:  
• RA Series IT Racks  
• 93PS/93PM UPS  
• Intelligent Rack PDU (ePDU G3)  
• Intelligent Power Manager (IPM) Editions software



# Eaton Intelligent Power Manager Editions help you simplify power management complexity

Understand, Manage and Optimize your infrastructure



## Monitor, manage and automate

IPM comes in 3 Editions, providing on-site monitoring and orchestration capabilities enabling you to understand critical power constraints in context and to protect your critical workloads during power or environmental events.

### Understand

- ✓ Contextual visibility of metrics and constraints, including composite metrics
- ✓ Monitor Eaton and many 3rd party power devices
- ✓ Asset management

### Manage

- ✓ Monitor Eaton and many 3rd party power devices
- ✓ Define basic business continuity policies with host level actions to gracefully shutdown infrastructure
- ✓ vCentre plugin to integrate power information into VMware environments
- ✓ Connector library to simplify integration and orchestration of actions with select alliance partner solutions

### Optimize



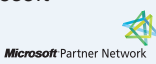








- ✓ Monitor Eaton and many 3rd party power devices
- ✓ Define advanced business continuity policies with host and vm level actions to keep critical applications running longer
  - Shutdown, suspend, power on/off and migrate individual or groups of virtual machines
  - Extend battery runtime by suspending non-critical VMs and hosts
  - Safely shutdown and securely restore high availability environments
- ✓ Trigger pre-defined VMware Site Recovery Manager plans
- ✓ vCentre plugin to integrate power information into VMware environments
- ✓ Connector library to simplify integration and orchestration of actions with select alliance partner solutions





# Integration where it matters

Virtual desktop integration for blended learning. Increased security footprint. Expanded mobile access. All of these changes expand your virtual infrastructure. To help provide a more unified, resilient IT architecture, Eaton works with top IT vendors.

Alliance program	Partner Product	Integration	Validation	What Eaton Offers
<b>VMware</b> 	vCentre, vRealize Operations, Site Recovery Manager, vSAN	Power mgmt via IPM plug-in to vCentre Infrastructure Management Pack for vRealize		<ul style="list-style-type: none"> <li>Eaton Intelligent Power Manager Manage &amp; Optimize Edition seamlessly integrates into VMware's vCentre dashboard and vRealize Operations Manager letting you manage power to your virtual environment, ensuring business continuity.</li> </ul>
<b>Microsoft</b> 	Microsoft HyperV	IPM integration with HyperV		<ul style="list-style-type: none"> <li>Eaton IPM Manage &amp; Optimize Editions allow you to gracefully shutdown your Microsoft virtual environment.</li> </ul>
<b>Dell EMC</b> 	VxRail, XC series, VxBlock, XC (with Nutanix)	IPM integration with VMware Power capping (Vblock)		<ul style="list-style-type: none"> <li>Eaton products are part of the Software and Peripherals offering</li> <li>Currently working on IPM integration with VxRail Manager</li> <li>Vblock Ready status</li> </ul>
<b>HPE</b> 	OneView, SimpliVity 380, Composable Infrastructure, Synergy	Power capping, spatial relationship with OneView IPM integration with VMware		<ul style="list-style-type: none"> <li>IPM Optimize Edition integration with HPE OneView</li> <li>Full integration &amp; management of HPE UPSs</li> <li>Lab-tested IPM integration with HPE SimpliVity</li> </ul>
<b>NetApp</b> 	FlexPod, FlexPod Modular Integration, Managed Edge Cloud, NetApp HCI	IPM integration with VMware		<ul style="list-style-type: none"> <li>IPM Manage &amp; Optimize Editions enable graceful shutdown of select Netapp FAS storage systems.</li> </ul>
<b>Nutanix</b> 	NX, SX, HX (with Lenovo), XC (with Dell), Prism, Acropolis AHV on Cisco AHV on HPE	Acropolis for VM, cluster and AHV shutdown, connector to Prism IPM integration with VMware		<ul style="list-style-type: none"> <li>Nutanix AHV Ready validation for IPM Optimize Edition which demonstrates a direct integration with the Nutanix Acropolis Hypervisor</li> </ul>
<b>DataCore</b> 	DataCore Software-Defined Storage infrastructures	Eaton IPM Optimize Edition		<ul style="list-style-type: none"> <li>Eaton IPM Optimize Edition allows you to gracefully shutdown your DataCore Software defined Storage infrastructures.</li> </ul>

Find out more about how Eaton solutions can help at:  
**Eaton.com/data-centre-uk**

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