

Data Center White Space

Highly efficient and adaptable solutions designed for mission-critical infrastructure.



Powering Business Worldwide

An aerial night photograph of a city, likely Paris, showing a river (the Seine) winding through the urban landscape. The city is illuminated with warm lights from buildings and streets, contrasting with the cool blue tones of the twilight sky. The Eiffel Tower is visible in the distance on the horizon.

We make what matters work.

Power is a fundamental part of our world. That's why we're dedicated to improving people's lives and the environment with power management technologies that are more efficient, safe and reliable. Because that's what really matters. And we're here to make sure it works.

To learn more, go to: Eaton.com/whatmatters



Powering Business Worldwide

We help our customers solve their greatest power management challenges through our industry-leading electrical, aerospace, hydraulic and vehicle products and services. We are dedicated to manufacturing excellence and to providing innovative products that make our customers more successful. Our broad product mix can be found in industries all over the world, protecting people and assets, while improving productivity and efficiency.

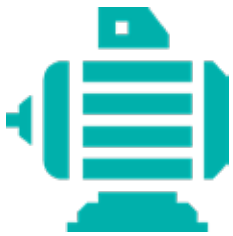


Sustainability

At Eaton, we deliver smarter, more efficient and sustainable power management solutions to drive global change.

Companies and communities alike depend on Eaton to solve some of the planet's toughest power management challenges. That's a responsibility we take seriously - because we owe it to future generations to leave the world a safer and more sustainable place to live.

Our four-part sustainability strategy addresses environmental, social and governance issues. It also allows us to meet today's changing power management needs, while making good on our mission to improve the quality of life and the environment.



Creating sustainable solutions

We design technologies that accelerate the energy transition, electrify transport and boost infrastructure. Helping customers meet their sustainability goals while advancing a low-carbon future.



Engaging employees and communities

We empower employees and support communities through action and outreach. Our employees care about creating a better and more sustainable world.



Reducing our footprint

We're committed to minimizing our environmental impact by reducing emissions, energy use, water consumption, and waste across our operations and value chain.



Doing business right

Integrity, transparency, and strong governance are the foundation of our sustainability approach. We uphold the highest ethical standards and ensure regulatory compliance throughout our business.

Table of Contents

- About Eaton 2
- Sustainability 4
- Introduction to Data Center White Space..... 6
- Physical housing space..... 10-14
 - Rack Enclosures 11
 - Aisle Containment 12
 - Eaton ORV3 Rack 13
 - TANlock 14
 - Rack Accessories..... 14
- Power & protect..... 15-21
 - UPS Systems 16-17
 - PDUs 18
 - Power Cords 18-19
 - Eaton ATS..... 20
 - Eaton Gigabit Network Card..... 21
 - Eaton Environmental Monitoring Probe Gen 2..... 21
- Command, control and connect..... 22-27
 - KVMs 23
 - Console Servers 24
 - Fiber Solutions 25-26
 - Copper Solutions 27
- Safety..... 28-29
 - Fire detection 29
 - Emergency Lighting 29
- Manage 30-31
 - Brightlayer Software 31
- Services 32-35
 - Service Contracts 33
 - Eaton Cyber Secured Monitoring..... 34
 - Extended Warranty Services..... 35
 - Battery Replacement Services 35



White space is the backbone of any efficient data center, housing critical computing systems that drive essential operating tasks. To truly harness its potential, white space must be designed for adaptability, efficient power distribution, and long-term resilience. At Eaton, we specialize in delivering tailored white space solutions that align with your evolving business needs. Our expertise ensures your infrastructure operates at peak performance. Eaton's innovative technologies and customized strategies are designed to drive the growth, reliability, and sustainability of your data center environments.

Adaptability

Adaptability in the data center white space is key to maintaining long-term operational efficiency and competitiveness. Evaluating the adaptability of your data center involves meeting key criteria for scalability, flexibility, and applicability. Together, these elements enable a data center to remain resilient while accommodating changes in growth, functionality and technological advancements.

Scalability

Designing data centers with scalability in mind enables organizations to plan for expansion without the risk of future reconstruction challenges or costly system overhauls. By building scalability into the threads of white space designs, organizations can not only save time and money, but also successfully future-proof their operations.

Flexibility

Rack density flexibility is a key factor in the design and operation of a data center's white space. Flexibility ensures that your system can easily adapt to meet changing demands, whether it's for hardware upgrades, server additions, or power and cooling adjustments. Rack density flexibility also addresses how efficiently equipment is housed within the white space. Higher rack density accommodates more hardware to be stored in the same environment, optimizing the use of available space while reducing power demands.

Applicability

In this context, applicability is defined as multi-tenant capabilities. With multi-tenancy in play, a single data center can successfully support various clients, each with their own unique operational needs and resources. Multi-tenant designs offer significant cost benefits by reducing the utilization of separate client infrastructures while subsequently prioritizing the data safety of each individual client.

Eaton delivers solutions for the latest trends.



GenAI

GenAI is driving demand for advanced computing capabilities. Eaton white space solutions are adapted for this new demand.



Energy saving

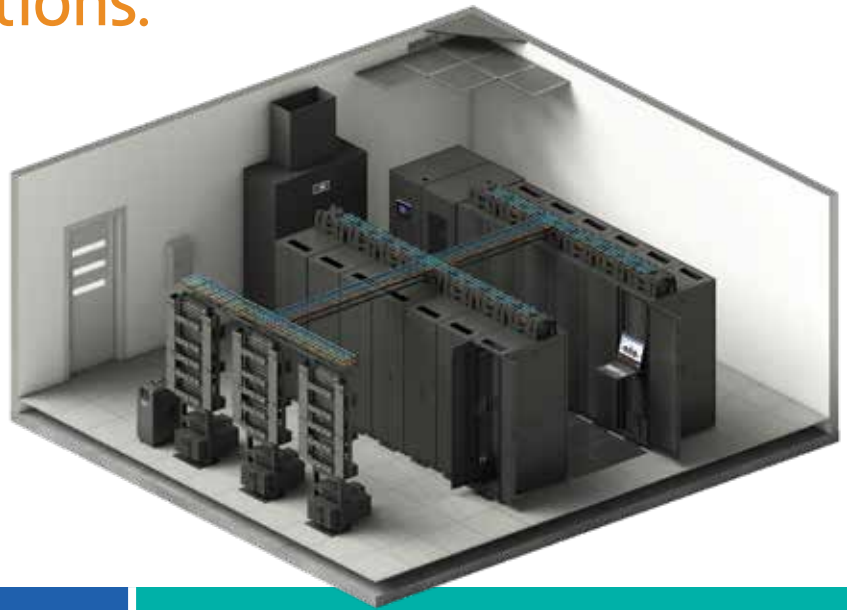
- Eaton is committed to minimizing its environmental footprint.
- Eaton provides a broad portfolio of Energy Star-rated UPS systems.
- All Eaton UPSs are compliant with the Code of Conduct 2024.



Cybersecurity

- Gigabit network capabilities (Network M3) for data center environments.
- Dual cyber security certifications (UL 2900-1/IEC 62443-4-2).
- Netpack version includes Network card.

Maximize uptime with the smartest, most reliable data center power and connectivity solutions.



Physical housing space

Rack Enclosures & Cable Management

SmartRack enclosures are designed for secure, high density server and networking applications in IT and White space environments. Racks provide cable management and enable optimized airflow for increased operational efficiency and prolonged equipment life.

Command, control & connect Out-Of-Band Management

Console Servers

Provide a secure gateway for in-band and out-of-band remote access to serial- and network-connected devices.

KVM Switches

Control multiple servers from a single console. Available features include out-of-band access for critical uptime, remote access over IP, Cat5e/6 cabling, multiuser access, LCD consoles.

Copper and Fiber Networks

Connect data center devices and infrastructure with reliable copper and fibre-optic network solutions that meet the latest technology standards.

Safety

Fire detection and emergency lighting solutions help detect, notify, evacuate and protect against a range of threats in today's most complex and challenging environments.

Power & protect

UPS Systems

Deliver up to 20kVA of stable, high-efficiency power in a compact rack-mount form factor. Expandable battery backup provides extended runtime during outages, protecting equipment from blackouts, voltage fluctuations, and other power anomalies.

Rack PDUs

Eaton's PDUs deliver highly secured power distribution and business continuity, critical in today's data centre space. From basic power distribution to advanced remote management capabilities, Eaton Rack PDUs are designed to meet the evolving needs of modern data center environments.

Manage

Performance Management Software

Brightlayer Data Centers Suite solutions enable users to proactively monitor, manage, and control IT and facility assets.

Services

We offer a range of extended warranties, service plans, battery replacements, and secure remote monitoring services to safeguard the performance and reliability of your equipment.



Physical housing space

Rack Enclosures

Eaton rack enclosures are designed for mounting, organizing and securing rack-mount IT equipment such as servers and switches, regardless of the manufacturer. Many heights, widths, depths and other variations are available, with a wide range of configuration options.

Floor-Standing Enclosures

Eaton's premium-grade floor-standing server racks organize and secure IT equipment in any location from high-density data centers to the tightest spaces at the edge of your network.

- Compatible designs
- Easy deployment
- Height: 12U to 52U
- Depth: standard, deep and extra deep
- Width: 600 mm - 800 mm
- Integrated baying tabs connect easily to other enclosures
- Vertical cable management bars
- Locking, reversible doors
- Removable side panels



GenAI-Ready

Heavy-duty racks house, organize, and secure heavy AI servers, along with other critical devices used for generative AI applications in enterprise, colocation, and hyperscale data centers.

- Increased weight capacities up to 2268 kg static
- Increased depth up to 54" (1372 mm) usable depth
- Width options: standard 600mm and expanded width of 800mm available
- White color to improve visibility
- 80% front-to-back airflow efficiency
- Tanlock by Eaton enclosure locks

- 1 Side panels (lockable, removable)
- 2 Front door (lockable, removable, reversible)
Vented door enables airflow through the rack.
- 3 Heavy-duty casters and levelers
- 4 Adjustable front and rear mounting rails with square holes
Easy-view depth index facilitates adjustment. Rails on wide enclosures have pass-throughs with brush strips and toolless mounting slots.
- 5 Mounting rails with toolless mounting slots
Mount vertical PDUs and cable managers.
- 6 Roof panel (removable) Pass-throughs with brush strips accommodate cables from vertical PDUs and other equipment.
- 7 Split rear doors (lockable, removable) Vented doors enable airflow through the rack.



Open-Frame Racks

Designed for high-performance data centers, these open-frame racks offer streamlined accessibility with no doors or side panels. Integrated baying tabs allow seamless alignment of multiple racks in row configurations, making them ideal for scalable deployments. Fully compatible with hot/cold aisle setups, it supports efficient airflow management and thermal optimization.

- Compatible designs
- Toolless mounting / essential equipment included
- Heavy-duty cold-rolled steel construction
- Heights from 12U to 58U
- Adjustable mounting depth



Co-Location

Designed for multi-tenant data center environments, Eaton colocation racks feature dual-compartment enclosures that enable secure, independent access for multiple users within a single cabinet—ensuring both privacy and operational efficiency.

- Two or four separate compartments
- Separate lockable doors and side panels
- Separate cable routes
- Allows the facility manager to have access to each compartment, but each compartment has a unique combo code or key



Aisle Containment

An aisle containment system engineered to enhance cooling efficiency in hot/cold aisle rack configurations. Essentially creating a room within the aisle, the system helps keep hot and cold air separated to make existing air conditioning systems in data center and edge-of-network installations more efficient.

- Flexible and expandable
- Self-supporting frame structure
- Racks can roll in/out as needed
- Hot or cold aisle compatible
- Fast assembly



Eaton ORV3 Rack

Eaton's ORV3 rack and power solutions offer a range of efficiency, scalability and cost-saving benefits to data center white space customers. Offering preconfigured solutions, Eaton allows you to deploy Open Compute Project (OCP) ORV3 racks for testing or production without making a costly engineering commitment. Eaton's reference designs are also fully customizable to meet the needs of individual customers and IT environments.

Solutions include ORV3 racks, power shelves, power supply units (PSUs), battery backup units (BBUs) and a full range of rack accessories. Power shelves and BBUs are designed to fit the Nvidia 19" rackmount profile, with 21" adapters available. This provides flexible solutions for standard OCP compute or AI workloads.



ORV3 racks

Available in 39OU and 44OU sizes, these heavy-duty racks are available with or without doors and side panels.

ORV3 power shelf and power supply units (PSUs)

Each 33 kW power shelf holds up to six 5.5 kW PSUs, sold separately. Various input power cords are available to match site requirements. Power shelves can be paralleled to scale up to 198 kW per rack.

ORV3 battery backup unit (BBU) and batteries

Each 16.5 kW BBU holds up to six 2.75 kW batteries, sold separately. Battery backup runtime scales to match application requirements.

Rack accessories

Accessories adapt racks to a variety of applications, including 19" and 21" equipment mounting. Racks can also be further customized to match customer requirements upon request.

TANlock

TANlock 3 provides a hardware-based access control and monitoring solution for IT infrastructure, including server racks and control cabinets.

It delivers real-time prevention, detection, documentation, and reporting of unauthorized physical access to sensitive IT assets—from any location.

TANlock 3 models are PoE-powered and support multiple authentication methods, including RFID and two-factor authentication (PIN keypad, fingerprint, and touchscreen), as well as remote access control.



The solution integrates seamlessly with Eaton Tripp Lite Series racks (standard cutout) and Eaton Brightlayer software.

It can also integrate with existing IT and security ecosystems via Microsoft Active Directory, LDAP, RESTful and Web APIs, or SNMP, enabling customers to leverage TANlock 3 security within their own dashboards and management tools.

Rack Accessories

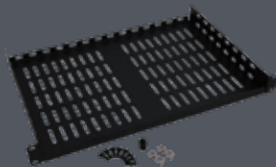
Enhance your rack with accessories that keep your setup neat and professional.

Cable management



Vertical, horizontal and overhead cable managers allow you to organize the power, network and other cabling in the rack, especially when adding equipment leads to a corresponding increase in cable requirements.

Rack shelves



Fixed, sliding and cantilever shelves store up to 113 kg of non-rackmount equipment like tower units, monitors or other networking devices.

Security



SmartRack Locking Door Handles for Server Rack Front and Back Doors. Secure locking lets facility and IT managers closely guard access to enclosures on premise. 4-digit combination locks or SFIC core for fast and convenient rekeying when access requirements change.

Airflow management



Passive and active airflow management solutions help block unused rack spaces and prevent unwanted bypass airflow.

A photograph of two IT professionals, a man with glasses and a woman, looking at a computer monitor in a server room. The image is overlaid with a teal gradient and horizontal light streaks. The text 'Power & protect' is written in white on the left side.

Power & protect



UPS Systems

A well-equipped data center is backed with reliable and redundant power systems. Eaton's UPS solutions ensure continuous, clean power delivery to your critical IT infrastructure—minimizing downtime and protecting performance. With rising power densities and evolving workloads, our advanced UPS systems are designed to meet the demands of modern white space environments.

Single-Phase UPS

Eaton 9PX Gen2 UPS

Eaton's 9PX Gen2 5–11 kW UPS is designed for white space deployment. It fits standard IT racks and delivers best-in-class power management and battery backup for critical equipment in data centers.



- **High Efficiency:** up to 97.2% efficiency with advanced silicon carbide (SiC) tech—cutting energy and cooling costs.
- **Compact Power:** delivers up to 11 kW in just 4U; ENERGY STAR® qualified with 11% more power than previous models.
- **Flexible Outlets:** combo C39 outlets support both C14 and C20 plugs—no more guessing C13 vs. C19 needs.
- **Remote Management:** built-in Gigabit Network Card enables secure remote monitoring, firmware updates, and integration with Eaton's Brightlayer™ suite.
- **Smarter Battery Care:** ABM+ tech extends battery life by up to 50% and predicts optimal replacement timing.
- **Reliable Protection:** comes with a 3-year electronics warranty (extendable to 7 years) and 2-year battery coverage.

Part Numbers	Rating (VA/W)	Outputs	Battery quantity	Runtime at half-load	Hot-Swap
5000VA					
9PX5KIRTNG2	5000VA/5000W	HW + 6 (C13) + 6 (C39)	15	9 min	No
9PX5KIRTNBPG2	5000VA/5000W	HW + 6 (C13) + 6 (C39)	15	9 min	Yes
6000VA					
9PX6KIRTNG2	6000VA/6000W	HW + 6 (C13) + 6 (C39)	15	7 min	No
9PX6KIRTNBPG2	6000VA/6000W	HW + 6 (C13) + 6 (C39)	15	7 min	Yes
8000VA					
9PX8KIRTNG2	8000VA/8000W	HW + 8 (C13) + 8 (C39)	20	15 min	No
9PX8KIRTNBPG2	8000VA/8000W	HW + 8 (C13) + 8 (C39)	20	15 min	Yes
11000VA					
9PX11KIRTNG2	11000VA/11000W	HW + 8 (C13) + 8 (C39)	20	9 min	No
9PX11KIRTNBPG2	11000VA/11000W	HW + 8 (C13) + 8 (C39)	20	9 min	Yes

Extended battery modules

9PXEbm180RT3UG2	Eaton 9PX EBM 180V RT3U G2
9PXEbm240RT3UG2	Eaton 9PX EBM 240V RT3U G2

Three-Phase UPS

Eaton 93PX UPS

Eaton 93PX 15-20 kVA UPS provides stable power for critical IT infrastructure. With its advanced technology to improve the double-conversion efficiency and reduce footprint, it saves both energy and rack space. It also offers lower TCO, and Eaton Cyber Secured Monitoring.



- High power density: the 15 kVA/20 kVA power module uses only 3U rack space.
- Cybersecurity: Eaton Cyber Secured Monitoring is the right solution to connect your device. It runs on a secured cloud and allows enabling services such as Health Reports and early anomaly detection that help mitigate downtime risk.
- Intelligent Power Manager (IPM): IPP/IPM compatible with all major OS including virtualization software such as VMware and Hyper-V.
- Accessories: MBP and EBM.
- Battery Management: Eaton's exclusive ABM technology increases battery service life by 50%.
- High efficiency: double conversion efficiency of Eaton 93PX UPS is 96%.
- Connectivity cards: Eaton Gigabit Network Card, Eaton Gigabit Modbus Card, Environmental Monitoring Probe.

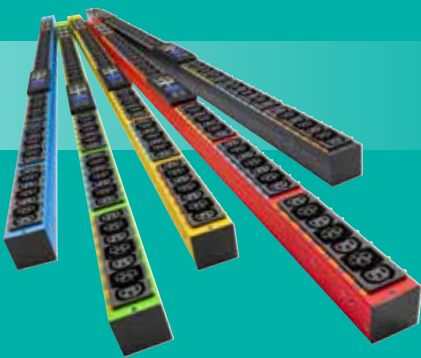
	93PX15KIPM	93PX20KIPM
kVA rating	15 kVA	20 kVA
Wattage	15 kW	20 kW
Runtime at full load	3 min	
Internal batteries	None. 1 pair of EBMs as minimum to provide backup time	
Batteries max. quantity	6 pairs (2*6)	
Efficiency	Online mode up to 96%, ECO or ESS mode up to 98.8%	
Parallel mode	Maximum 3 (60 kVA/kW)	
Connectivity port	RS232 DB9; USB 2.0 type-B; programmable dry contacts in/out; 1 x Mini-Slot for comms cards	
External battery module 480 V	93PXEbm480 (contains 2 x (240 V, 3RU) modules each)	
MBP	MBP20Ki	
MBP with power distribution	MBP20KiPDU	
MBP parallel 2 x 20 kW	MBP20KiPARA	
Network card	Network-M2	
Modbus card	INDGW-M2	
Environmental monitoring probe	EMPDT1H1C2	
Netpack 9U (includes power module, EBM, rack kit and network card)	93PX15KIRTN	93PX20KIRTN

PDU's

When designing within the white space, one key consideration is the electrical distribution system. To ensure maximum uptime for users, complex electrical solutions are necessary to prevent server racks from powering down. Effective power distribution goes beyond keeping a system running; it optimizes energy flow to enhance long-term efficiency, sustainability and operational cost reduction. As data centers evolve, the ability to allocate and monitor power becomes imperative for managing growth, minimizing energy waste, and ensuring power reliability.

Eaton Rack PDU G4

Eaton rack PDU G4 is a cutting-edge power distribution unit designed to enhance efficiency, security, and flexibility in modern data centers. It features advanced cybersecurity measures, hot-swap capabilities, and high outlet density to ensure uninterrupted power supply and optimal performance.



Natural load balancing

The G4 design alternates phase and/or breaker per section on all PDUs, naturally balancing rack power load.



C39 combining C13 and C19 in a single outlet, that securely connect both C14 and C20 power cords. Includes visual LED power status.

Dual Gb Ethernet +network cascading: The NMC features dual Gigabit Ethernet ports, providing secure multi-profile access in colocation environments and enabling seamless secure daisy-chaining up to 32 PDUs, resulting in savings on IT infrastructure.



EMPDT1H1C2
Optional daisy chain sensor

Basic

Reliable power distribution with secure outlets

Metered Input

Streamline rack-level power and load monitoring

Switched

Power control at the outlet level alongside rack-level power monitoring

Managed

Enable consumption monitoring and power control at the server level and PDU

	Input Type / Rating (A)	Outlet Type and Qty	Nominal Power	Basic	Dimensions L x W x D, mm	Metered Input	Dimensions L x W x D, mm	Switched	Dimensions L x W x D, mm	Managed	Dimensions L x W x D, mm
1-Phase	C20 16A	12xC13 : 12xC39 - 24	3.7kW	EVBAFC20A	1000x52x53	EVMIFC20A	1000x52x53*	EVSWFC20A	1000x52x53*	EVMAFC20A	1000x52x53*
	IEC60309 16A	12xC13 : 12xC39 - 24	3.7kW	EVBAF116A	1000x52x53	EVMIF116A	1000x52x53*	EVSWF116A	1000x52x53*	EVMAF116A	1000x52x53*
	IEC60309 32A	12xC13 : 12xC39 - 24	7.4kW	EVBAF132A	1000x52x53	EVMIF132A	1730x52x53	EVSWF132A	1730x52x53	EVMAF132A	1730x52x53
		24xC13 : 18xC39 - 42	7.4kW	EVBAF132X	1730x52x53	EVMIF132X	1730x52x53			EVMAF132X	1730x52x53
	IEC60309 63A	24xC13 : 18xC39 - 42	14.5kW			EVMIF163X	1730x52x53			EVMAF163X	1730x52x53
3-Phase	IEC60309 16A	12xC13 : 12xC39 - 24	11kW			EVMIF316A	1000x52x53*	EVSWF316A	1000x52x53*	EVMAF316A	1000x52x53*
		24xC13 : 18xC39 - 42	11kW	EVBAF316X	1730x52x53	EVMIF316X	1730x52x53			EVMAF316X	1730x52x53
	IEC60309 32A	12xC13 : 12xC39 - 24	22kW			EVMIF332A	1730x52x53			EVMAF332A	1730x52x53
		24xC13 : 18xC39 - 42	22kW	EVBAF332X	1730x52x53	EVMIF332X	1730x52x53			EVMAF332X	1730x52x53
		24xC13 : 24xC39 - 48	22kW							EVMAF332C	1900x52x65

Power Cords

Connects a server to a PDU or UPS in a data center rack or cabinet.

- Fully VDE-compatible for European IT applications
- Ideal replacement for worn out or missing power cable



High Power PDU G4 125 A

Unleash the full potential of your AI infrastructure with the Eaton High Power PDU G4 125 A. Engineered to deliver up to 88 kW of output capacity, this advanced power distribution unit supports multiple high-performance servers.



Coming in September 2026!

Maximum power density:

125 A / 88 kW output for high-performance, powerhungry AI servers and applications. Thanks to its 3U horizontal design and universal mounting brackets, the High Power PDU G4 125 A effortlessly fits into any rack.

Flexible integration:

24 combo C39 outlets simplifying deployment into diverse architectures, while the high retention system ensures reliable connections, even in high-density environments.

Smart monitoring:

Real-time energy consumption data and breaker status monitoring, remotely accessible through DCIM tools.

Reliability & security:

Individual breakered outlets to ensure maximum power delivery, compliant with UL2900 / IEC62443 cybersecurity standards.



Eaton ATS 16 Netpack



Eaton ATS 30

Power source transfer switch



Seamless power transfer

Eaton ATS are designed to provide power supply redundancy for single-connection equipment. With ATS, power from two independent sources can be supplied to IT equipment, which have only one input power supply.



Simple and cost-effective

Considering the advanced design of Eaton ATS, these are highly competitive in price compared with the “dual power supply” options available from suppliers of networking equipment.

1U high, the unit can be installed easily within the rack. Metering and basic configuration capabilities are possible through ATS 16's LCD.



Redundancy

Only advanced servers are equipped with a dual electrical power supply. The majority of network devices and entry-level servers have a single connection with only one electrical power input. With the Eaton ATS devices facilitate the connection of critical equipment to a redundant power supply.

Both sources (primary and secondary) are connected in a straightforward manner to the ATS in the base of the rack. The Eaton ATS then controls the redundancy of this electrical power supply. If the primary source fails, transfer to the secondary source is automatic and instantaneous.



Network connectivity

The ATS 16 Netpack and ATS 30 provide network connectivity. This allows users to access, configure and manage units from remote locations.

Eaton Gigabit Network Card

Eaton's Gigabit Network Card (Network-M3) for UPS expertly blends comprehensive power management with market-leading cybersecurity. With a zero-trust architecture and customizable firewall, it reliably shields mission-critical systems in medium-sized and enterprise IT networks. The Gigabit Network Card is compatible with multiple Eaton power management software solutions, allowing extensive automation and remote management and control that shortens response times to power issues. The Gigabit Network Card gives IT managers actionable intelligence for proactively addressing power problems before they turn into downtime, and for maximizing the efficiency of their power operations.



- **Zero-trust architecture** minimizes cybersecurity vulnerabilities through hardware root of trust, enabling secure boot and complete chain of trust
- **Zero-touch provisioning** automatically configures network cards faster, saving time exponentially in large-scale deployments
- **Future Proof:** including 802.1x port level authentication
- **Brightlayer software** can monitor and manage fleets of Gigabit Network Cards, enabling automated actions during power events, including graceful shutdown and reallocation of virtual machines to protect data and preserve business continuity
- **User-configurable firewall** reduces an organization's attackable surface area and helps meet specific network/security compliance requirements
- **REST API** allows organizations to easily integrate the network card with native systems and automate M2M interactions

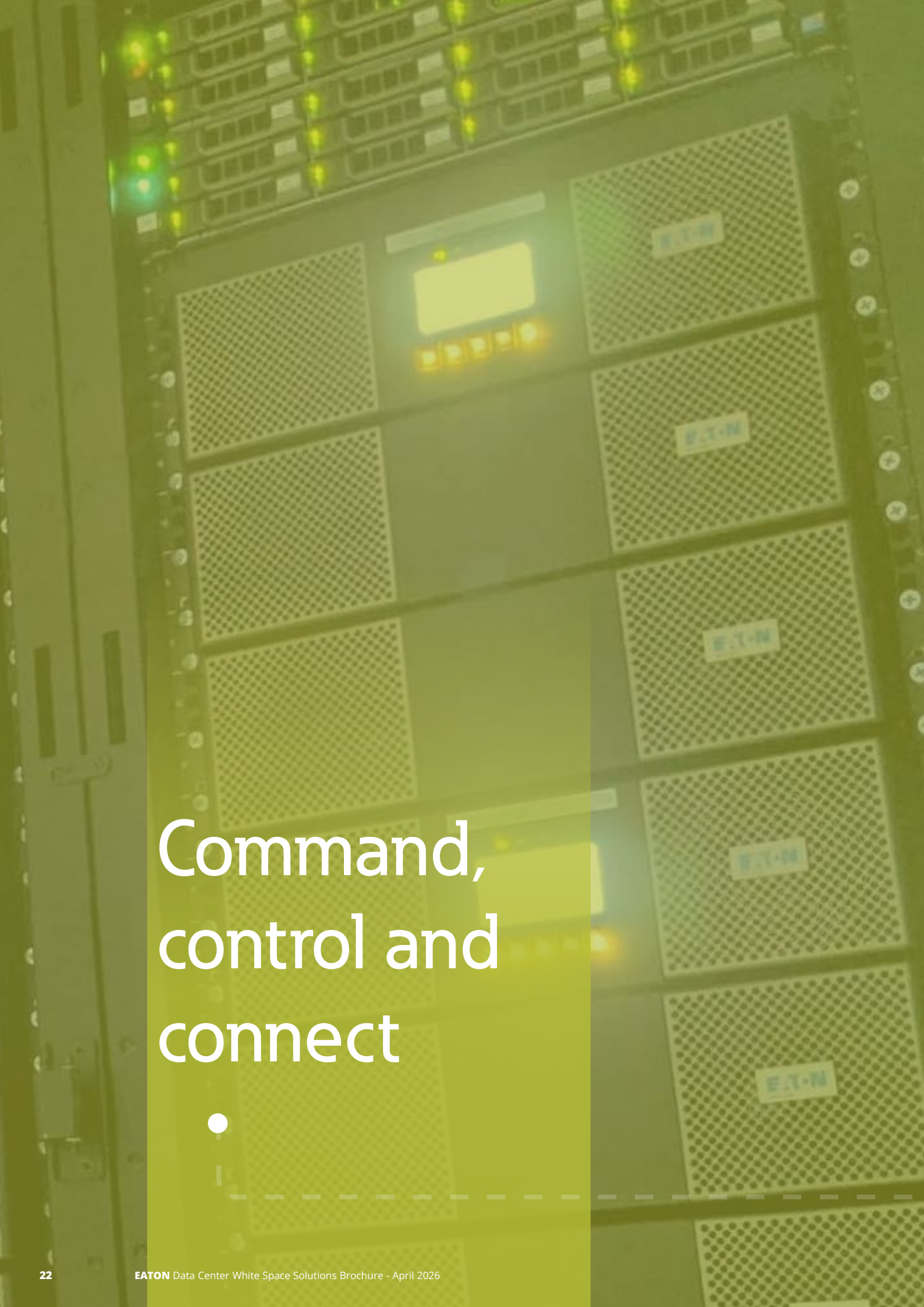
Eaton Environmental Monitoring Probe Gen 2



The Eaton Environmental Monitoring Probe (EMP) Gen 2 (EMPDT1H1C2) is a second-generation environmental monitoring probe for the Eaton Gigabit Network Card and Eaton rack PDUs, including G3 (firmware 4.x or later), G3HD, G3+ and G4. The new EMP maintains all the functionality of the previous generation of sensors (temperature, humidity and dry-contact monitoring), while adding the ability to be daisy-chained (up to three per host), allowing multiple sensors to connect to a single host. For optimum air intake measurement within an enclosure, the EMP Gen 2 provides tie-wrap mounting options for front- and rear-door perforation to specifically measure airflow at the intake point. This enhances the richness of rack-level environmental data for the top, middle and bottom of the rack.

Stay informed and reduce risk in your application by receiving environmental notifications and setting up automated actions through the Eaton Intelligence platform for power management software. Each Eaton EMP Gen 2 sensor can support up to two additional input contact sensor devices per module, for a total of six additional sensors per rack. Additional sensors are sold separately.





Command, control and connect



KVMs

Rack-Mount Analog and Over-IP KVM Switches

Control servers running multiple applications from a single workstation to ensure infrastructure efficiency and streamline system administration.

Out-of-Band management gives the system administrator access to servers and other infrastructure even when the production network is down.

- 8 – 16 – 32 ports
- Cat5/6 or dedicated KVM cables
- 1 local user + up to 4 remote users
- Control 100s of servers
- Occupying only 1U of rack space
- Integrated security features

Analog KVM Switches



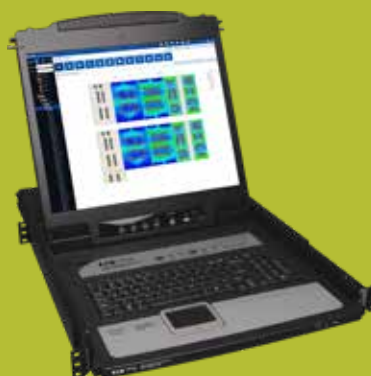
Over-IP KVM Switches



All-in-one KVMs with LCD Console

Designed for large, distributed, multi-server installs.

- Occupy 1U of rack space
- Up to 16 ports, expandable*
- Include all mounting hardware
- Analog and Digital Video Supported*
- Support secondary consoles
- Front-access USB ports
- Ships with compatible power cord
- Available with IP Remote Access*



*Model dependent, check spec sheets

Specifications	B020 Series	B030 Series	B040 Series	B064C Series	B070 Series	B021 Series
Port Count	8, 16	8, 16	8, 16	16	8, 16	-
Total Users	1	1	1	1 or 2	1	1
Supported Connections	USB,PS/2,VGA	USB,DP,HDMI	USB,PS/2,VGA	Cat5e/6,SIU,USB,VGA,DP,HDMI,Serial	Cat5e/6,SIU,USB,VGA	PS/2,USB,VGA,HDMI
Expandable?	Yes, via Daisy-Chaining	No	Yes, via Daisy-Chaining	Yes, via Daisy-Chaining	Yes, via Cascade	-
Max Ports in Entire Chain	256, 264	8, 16	256	128	128, 256	-
Console Resolution	1280 x 1024	1920 x 1080	1366 x 768	1920 x 1200	1366 x 768	1366 x 768
IP Version Available?	Yes	Yes	No	Yes	No	No
Peripheral Connections	USB	USB 1.1	-	USB	USB	USB
Port Control	Hotkey, OSD, Push Buttons	Hotkey, OSD, Push Buttons	Hotkey, OSD, Push Buttons	Hotkey, OSD, Push Buttons	Hotkey, OSD, Push Buttons	-
Auto-Scan Duration	1-255 seconds	1 - 255 seconds	5 – 95 seconds	1 - 255 seconds	Not supported	-
IP Authentication	RADIUS, LDAP	RADIUS, LDAP	Not supported	RADIUS, LDAP	Not supported	-
Virtual Media Speed	Not supported	Not supported	Not supported	12Mbps	12Mbps	-

Console Servers

Console servers provide secure in-band and out-of-band remote access to serial and network devices—such as switches, routers, and firewalls—24/7/365 from anywhere, ensuring uptime and simplifying management.

16 and 48 ports



B097/B098 Series

3 and 8 ports



B093 Series

- Manage routers, UPS systems and other serial-based equipment from anywhere, at any time, 24/7
- Validated to meet FIPS 140-2 standards to ensure utmost protection of private data
- Dual Gigabit Ethernet ports for primary network connection and automatic failover
- Designed for standard Cat5e/6 patch cable when connecting to Cisco devices
- Easy installation on desktop or 19 in. racks using included mounting hardware

Out-of-band access with automatic failover provides end users a fail-safe alternate channel for managing and troubleshooting critical systems like Servers, Firewalls, UPSs, PDUs and more.

Fiber Solutions

Patch Panels

PoE+-compliant patch panels provide efficient and easy management of fiber optic cables in the rack. This data center network technology provides high-bandwidth, low-latency, non-blocking server-to-server connectivity, which saves you money, simplifies your rack cabling and improves network performance.

N490 Series



16-Port Fiber Patch Panel, 1U (LC/LC), Multimode or Singlemode

N492 Series



36-Port Fiber Patch Panel Enclosure, 1U Rack-Mount (LC/LC)

Fiber Cassette Enclosures

Cost-effective, space-saving solution for adding a fiber cassette to your system.

- Singlemode & Multimode Fiber
- Helps you interconnect any combo of 10 Gb, 40 Gb and 100/120 Gb network equipment
- Made from heavy-duty cold-rolled steel
- No added heat or cooling load



Compatible cassettes:

- N482-2M12-LC12
- N482-3M8-LC12
- N482TAP-4MM73LC
- N482TAP-4MM73M8
- N482TAP-4SM73LC
- N482TAP-4SM73M8

Transceivers

Connects a single or multimode Gigabit Ethernet fiber optic network cable to a switch or server's SFP port.

- Supports data transfer rates up to 400 Gbps
- 100% compatible with Arista, Cisco, Juniper, HP, networking hardware

N286-Series



Fiber Cables

Singlemode (SMF)

SMF has a small diameter core that allows the light signals to travel much further without spreading out, enabling SMF to transmit data over distances of up to several kilometers.

OS2						
Connectors	ST/ST	SC/ST	SC/SC	LC/SC	LC/ST	LC/LC
1 m	N352-01M	N354-01M	N356-01M	N366-01M	N368-01M	N370-01M
2 m	N352-02M	N354-02M	N356-02M	N366-02M	N368-02M	N370-02M
3 m	N352-03M	N354-03M	N356-03M	N366-03M	N368-03M	N370-03M
5 m	N352-05M	N354-05M	N356-05M	N366-05M	N368-05M	N370-05M
10 m	-		N356-10M	N366-10M	N368-10M	N370-10M
15 m	-	N354-15M	N356-15M	N366-15M	N368-15M	N370-15M
20 m	-	-	-	-	-	N370-20M

Multimode (MMF)

MMF allows multiple modes or pulses of light to propagate through the core of the cable. Due to high dispersion and attenuation rates, MMF is commonly used in shorter distance data transmission applications. It is also more susceptible to signal degradation and attenuation over longer distances.

Meters	OM3				OM4	OM5
Connectors	SC/SC	LC/SC	LC/ST	LC/LC	LC/LC	LC/LC
1 m	N806-01M	N816-01M	N818-01M	N820-01M	N820-01M-OM4	N820-01M-OM5
2 m	N806-02M	N816-02M	N818-02M	N820-02M	N820-02M-OM4	N820-02M-OM5
3 m	N806-03M	N816-03M	N818-03M	N820-03M	N820-03M-OM4	N820-03M-OM5
5 m	N806-05M	N816-05M	N818-05M	N820-05M	N820-05M-OM4	N820-05M-OM5
10 m	N806-10M	N816-10M	N818-10M	N820-10M	N820-10M-OM4	N820-10M-OM5
15 m	N806-15M	N816-15M	-	N820-15M	N820-15M-OM4	N820-15M-OM5
20 m	-	-	-	N820-20M	N820-20M-OM4	N820-20M-OM5
25 m	-	-	-	N820-25M	N820-25M-OM4	N820-25M-OM5



Copper Solutions

Patch Panels

Enhanced Patch Panels offer full functionality and compatibility. Clear numbering on both sides makes cable identification easy, while the high-density 19-inch design saves valuable rack space.

- 1U & 2U options
- 19-in. rackmount ready
- EIA/TIA 2/32 spacing
- PoE+ (30W) or PoE++ (100W) models

Punchdown (1U or 2U)

- 24 & 48 ports
- Cat 5/5e, Cat6, Cat6a



N252-Series

Feed-through (1U only)

- 24 or 48 ports
- Cat 5/5e, Cat6, Cat6a



N254-Series

Copper Cables

Copper network cables provide data transmission across diverse networking environments. They offer robust performance and are designed to minimize signal loss and interference, ensuring efficient and stable network connectivity.



Categories/Colors	Cat5e	Cat6	Cat6a		Cat8
	N002-Series	N201-Series	N261-Series	N262-Series	N272-Series
	●	● ●	●	●	●
31cm	UTP	UTP	UTP	STP	S/FTP
61cm	350 MHz/1Gbps	Snagless Connector	Snagless Connector	Snagless Connector	Snagless Connector
91cm	Type 2 PoE+ (30W)	550 MHz/1 Gbps	10 Gbps	500 MHz/10 Gbps	1000 MHz/40 Gbps
1,52m	Contact Plating Gold	Type 2 PoE+ (30W)	Type 2 PoE+ (30W)	STP Type 2 PoE+ (30W)	Type 3 PoE++ (60W)
1,83m	Stranded Copper	Contact Plating Gold	Stranded Copper	Stranded Copper	Contact Plating Gold
3,05m	EIA/TIA 568B	Stranded Copper	EIA/TIA 568B	EIA/TIA 568B	Connector Plating Nickel
4,57m	1 unit	EIA/TIA 568B	1 unit	Slim	Solid Copper
7,62m		1 unit or 50-Piece Bulk Pack		1 Unit	EIA/TIA 568B
					1 Unit



Safety

Fire detection, signalling and voice communication

Everything needed to keep a building safe from fire.



- Detectors and call points for identification
- Control panels and interfaces for management
- Alarms and emergency voice communication systems for alerting

Emergency Lighting - Central battery systems and luminaires



- Centralised power and testing for emergency lighting with full monitoring of connected luminaires
- Smart technologies (CEWA GUARD & STAR) reduce inspection and maintenance costs
- Innovative lighting technology combined with highly efficient LEDs ensures up to 70% energy savings and 50,000-hour service life
- Optimized light distribution to minimise the number of luminaires required



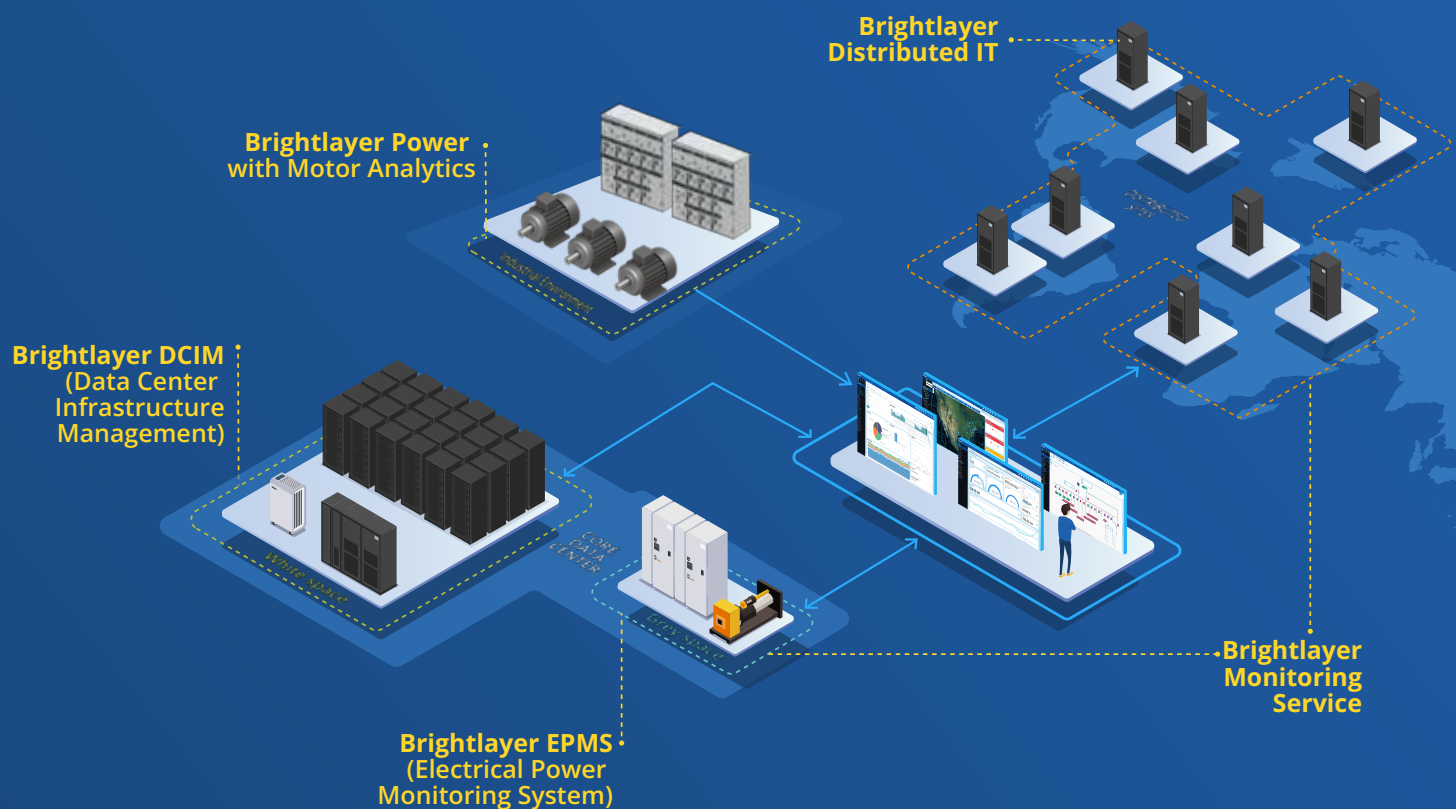
Manage

Brightlayer Software

Driven by continued growth in high performance computing, cloud adoption, storage expansion and virtualisation, power management has become a critical priority for modern data centres. These trends are increasing power density and operational complexity, making visibility, control and resilience more important than ever.

Through Brightlayer on-premise software, data centre managers can quickly resolve issues as they arise—or prevent them altogether. The Brightlayer suite offers a comprehensive set of applications, ranging from Brightlayer DCIM (Data Centre Infrastructure Management), which provides capacity planning, 3D visualisations, proactive remediation and analytics to help predict power component failures, to Brightlayer Distributed IT software, which enables remote monitoring, management and optimisation of critical power infrastructure across distributed environments, including retail branches, healthcare facilities, educational campuses and edge data centres.

Intelligent power management enables organisations to uncover the most relevant operational data and use it to support informed, real time decision making. Building on the strong foundation of the Brightlayer platform, Eaton delivers digital solutions that take industry challenges head on, with a strong focus in both IT and OT management. Through innovative thinking and proven processes, Brightlayer brings together the right balance of software, tools and services to solve data centre management challenges – helping operators create a safer, smarter and more efficient digital future.





Services

A decorative dashed line with a solid dot at the top left and a solid dot at the bottom right, forming a partial rectangular frame around the word 'Services'.



Service Contracts

We at Eaton like to keep things simple. So, we have compiled four distinct Service Level Agreements (SLA) to match different types of maintenance needs and budgets - Basic, Standard, Advanced and Premium. Whichever plan you choose, you can rest assured it will deliver power security and reliability that will keep your business running.

Basic	Standard*	Advanced*	Premium
			
Minimum protection for your system	Make sure you keep going	Gives you more financial benefits	Allows you almost to forget about power
Professional routine maintenance for your UPS	Essential services to minimize failure rate and its impact	Your choice to optimize maintenance investment	Integral solution to maximize your power security

**Standard + and Advanced + include all the features from the Standard and Advanced packages, but with the addition of Cyber-Secured Monitoring, also included with the Premium package.*

To align with your operational needs, Eaton's UPS Service Level Agreements are structured across five service categories.



UPS Maintenance

Preventive maintenance and inspections, system diagnosis, cybersecurity firmware update and system efficiency optimization.



Technical Support

Eaton Care helpdesk 8/5, expert hotline 24/7 and UPS operation training.



Emergency response

Guaranteed response time, root cause analysis and tailored contingency planning.



Commercial benefit

Special discounts for spare parts, battery replacements, cost of repairs labor.



Cyber Secured Monitoring

UPS performance dashboard, UPS system health report (anomalies detection) and maintenance records portal.

Eaton Cyber Secured Monitoring

An Eaton secure-by-design solution



Complies with rigorous cybersecurity, process, requirements and testing standards

Eaton Cyber Secured Monitoring is a cloud-based analytics solution collecting and analyzing data of power infrastructure devices without compromise to security and availability. It enables services such as Remote Monitoring, Health Reports and early Anomaly Detection that mitigate downtime risk associated with the critical components and shift from reactive to proactive model. Thanks to 10 years of expertise, Eaton Remote Monitoring Software can now provide you necessary insights and recommendations needed to prevent failure of your connected UPS systems and protect your

data.

IEC 62443-4-2 and UL 2900-1 certifications

Eaton Cyber Secured Monitoring runs in any supported Eaton UPS equipped with the Gigabit Network Card or the Industrial Gateway Card with secure wireless option available.



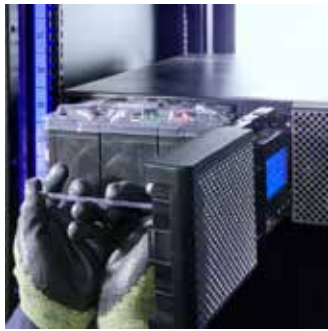
UPS Sample monthly report



The Gigabit network card is the industry first to receive IEC 62443-4-2 and UL 2900-1 certifications.

The IoT platform and cloud solution is ISO IEC 27001 and carrier security-certified, provided by the market leader in Europe.

Services for 1-ph UPS



Battery Replacement Services

Batteries are the heart of any UPS. To ensure yours are always operating in the best possible condition, Eaton offers two battery replacement services, both of which offer high-speed delivery and replacement, regardless of site location, along with an installation guide and safety instructions for handling new batteries.

Easy Battery+

Easy Battery+ offers a complete batteries tray with which to exchange your used batteries, making the whole battery exchange process much quicker and safer than swapping batteries one by one.

Battery+

Battery+ provides you with new loose batteries for your UPS.

Extended Warranty Services

Warranty+1 and Warranty+3 distributed service packs give you a peace of mind for 1 or 3 years in addition to the standard warranty of the product. The extended Warranties cover both electronics and batteries (batteries are covered only for failures, not for reduced autonomy).

Warranty+1

- Standard exchange on site
- Logistics covered by Eaton
- Professional Help-line

Warranty+3

- Standard product warranty extended by 1 or 3 additional years

Eaton is an intelligent power management company dedicated to protecting the environment and improving the quality of life for people everywhere. We make products for the data center, utility, industrial, commercial and institutional, machine building, residential, aerospace and mobility markets. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're helping to solve the world's most urgent power management challenges and building a more sustainable society for people today and generations to come

Founded in 1911, Eaton has continuously evolved to meet the changing and expanding needs of our stakeholders. With revenues of \$27.4 billion in 2025, the company serves customers in 180 countries.

For more information, visit [Eaton.com](https://www.eaton.com). Follow us on LinkedIn