

Eaton Data Center White Space Solutions



White space is the backbone of any efficient data center, housing critical computing systems that drive essential operating tasks. In order to fully maximize the potential of your white space, it must be designed with adaptability, efficient power distribution and longevity in mind. Eaton specializes in creating customized solutions that ensure your white space infrastructure operates at peak performance. Discover how Eaton's solutions can help contribute to the growth, reliability and long-term success of your data center.



Scalability and future growth

Easily adapts to growing workloads and evolving technological advancements.



Cost savings

Integrated systems reduce hardware needs and long-term operating costs.



Safety and risk mitigation

Easily adapts to growing workloads and evolving technological advancements.

Physical housing space

Floor-standing enclosures

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. Colocation racks feature dual-compartment enclosures that enable secure, independent access for multiple users within a single cabinet.

Eaton GenAI-ready

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

- Available in 42U, 45U, and 48U, these enclosures have weight capacities up to 2268 kg (static).
- Extra-deep 1448 mm options to house GenAI servers.
- Large ventilation pattern on surface supports efficient front-to-rear airflow in hot-aisle/cold-aisle configurations.



Power & protect

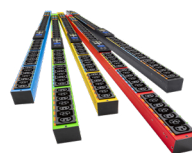
UPS systems

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.

Market-leading efficiency of up to 97.2% in the 11kW 4U, 9PX Gen2 is the compact UPS that also leads the way. 9PX Gen2 UPS comes with a cybersecurity Gigabit Network Card as a standard and leverage predictive machine learning to pinpoint battery replacement.



Rack power distribution units (PDUs) and Automatic Transfer Switch (ATS)



PDU G4 features advanced cybersecurity measures, hot-swap capabilities, and high outlet density to ensure uninterrupted power supply and optimal performance. Flexible combo C39 outlets securely connect both C14 and C20 power cords.



Eaton ATS delivers redundant dual-source power for single corded devices, available in 1U or 2U, single-phase 16A or 32A, with local display or cybersecurity Gigabit remote communication.



Powering Business Worldwide

Network infrastructure

Cable management

- Organize and secure copper, fiber and power cables in server rooms and IT closets.
- Vertical management, horizontal management, cable ties, network cable trays, cable ladders, and fiber optic cable management options are available.
- Simplified cable routing enhances workspace efficiency, improves airflow for equipment performance and facilitates maintenance.



Patch panels and cassettes

Enable high-speed, low-latency data transfer with pre-terminated cables, modular patch panels, and scalable breakout cassettes.



Active optical and direct attach cables

- With a range up to 100 meters and speeds up to 400GB, AOCs are ideal for linking AI servers and equipment between racks.
- For short-range transmissions, copper DACs provide a cost-effective means to connect equipment within the same rack.



Fiber cables

- Faster data transmission
- Higher bandwidth
- Longer transmission



Transceivers

- Connects a single or multimode Gigabit Ethernet fiber optic network cable to a switch or server's SFP port.
- Compatible with most common standards and protocols, such as SFP, SFP+, QSFP and XFP, and support data rates up to 400 Gbps.



Security

Cybersecurity network management cards

Eaton's Gigabit Network Card (Network-M3) UPS connectivity device expertly blends comprehensive power management with market-leading cybersecurity.



TANlock

- Compatible with SmartRack enclosures
- Supported interfaces include a 4-pin keypad, touchscreen, and fingerprint scanner, all with built-in RFID, PoE compatibility, and remote access.
- Two-factor authentication security



Command & control / Out-of-band access

KVMs

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



Console servers

Provide secure in-band and out-of-band remote access to serial and network-connected equipment through the device's console port.



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

Climate control

Environmental monitoring

- Eaton's Environmental Monitoring Probe (EMP) Gen 2 helps you stay on top of temperature, humidity, conditions remotely to proactively protect GenAI equipment from adverse environmental conditions.



Aisle containment

- Hot/cold aisle containment systems integrate air isolation and temperature containment with cable conveyance.
- Floor-standing or ceiling-mounted HAC systems are quick to deploy and offer built-in future-proofing by enabling easier cabinet changes for future growth.



Management

Brightlayer software

Eaton's DCIM, part of the Brightlayer software, delivers monitoring, trends, alerts, and reports to manage your power, pace, connectivity, and cooling resources across one or more facilities. These insights allow you to optimize your operations over time, so you can increase your data center's performance while managing costs.

Services

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.

Battery replacement services for UPS



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.

Eaton Cyber Secured Monitoring

Eaton Cyber Secured Monitoring is a cloud-based analytics solution collecting and analyzing data of power infrastructure devices without compromise to security and availability.



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Publication No. SA154006EN
March 2026

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