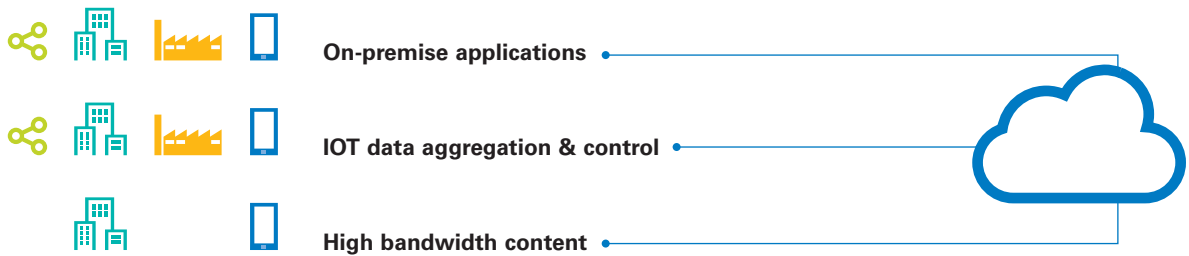# Intelligent power solutions for Edge IT environments

Edge IT or Edge Computing is an architectural pattern that often leverages cloud technologies and places data acquisition, local control functions, and high bandwidth consuming data as well as latency sensitive applications and services at the "edge" of the network, near the end user.

Multi-site deployments for:

On-premise applications

IOT data aggregation & control

High bandwidth content

Distribution	ROBO	Factory	Telco edge
Manage transactions, inventory, and shipping data	Security systems, registers, inventory management, and in-store analytics	Distributed sensor monitoring & production metric data	Support virtual network services and automate network management
Edge IT : 6kW to 8kW	**Edge IT : 3kW to 10kW**	**Edge IT : 6kW to 8kW**	**Edge IT : 6kW to 8kW**
(40kW to 200kW for site)	**(40kW to 80kW for site)**		

FAT•N

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Eaton intelligent infrastructure Edge IT solution:

- **Power protection**
- **IT housing**
- **Power distribution**
- **Infrastructure monitoring**

The value of intelligent power infrastructure for Edge IT

- Simplify deployment & management with integrated infrastructure solutions including racks, power protection, power distribution, monitoring & management
- Prevent downtime by helping users understand power & environmental capacity, avoiding user error
- Increase productivity with contextual visibility of the power chain, rack capacity & environmental constraints
- Simplify remote site operation by providing only the monitoring & capacity information you need in an intuitive, easy to understand manner
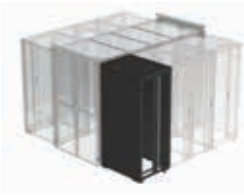
Where to implement intelligent infrastructure for Edge IT

- Multi-site, remote monitoring and/or troubleshooting requirement for Edge IT environments
- Need for centralizing infrastructure management to reduce infrastructure related service calls
- On-site resources lacking in power management expertise
- Typical Edge IT site size varying from 1 to 10 racks
- Need for device level power consumption monitoring
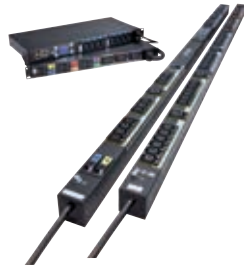- New builds and refresh of existing infrastructure

Eaton intelligent infrastructure Edge IT solution overview

Eaton REC series IT racks

Provide excellent protection and value for IT equipment in small to medium sized Edge IT deployments including:

- Full range of easy-to-use cable management accessories
- Simple to install aisle containment configurations with prefabricated roof and end of row door options

Eaton G3 Rack PDUs (ePDU)

Provide the best value for advanced features that facilitate management and monitoring of remote Edge IT infrastructure including:

- Remote outlet switching
- Billing grade (+/- 1%) outlet level power monitoring
- IEC outlet grip secures plugs on standard cables
- Daisy chain up to 8 ePDUs to reduce network port footprint
- Sequential startup of devices

IPM Infrastructure

Provides a simple to deploy, simple to understand alternative to traditional complex DCIM solutions with advanced power and environmental monitoring features including:

- Remote power chain monitoring in kW as well as phase and circuit balancing with contextual visibility of key metrics
- In-app power usage reporting via an intuitive & responsive web interface
- Environmental monitoring including temperature and humidity, water leak detection, door open detection, and more.
- IT asset management including business prioritization capabilities

Distributed backup power : Eaton 5PX & 9PX

Provides reliable, rack mounted backup power and power quality correction includes:

- 1 to 22 kVA power rating options
- Energy efficient (Energy star qualified)
- Energy metering
- Network management card
- 19" rack mounting brackets & universal rails
- External maintenance bypass

- OR -

Centralized Backup Power : Eaton 93PS

Provides the lowest total cost of ownership and maximum availability in its class. with industry leading efficiency and resiliency, it is the perfect choice for Edge IT data centers with mission critical applications.

- 8 to 40 kVA power rating options
- Energy Saver System (ESS) with up to 99% efficiency
- Network / SNMP interface

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