IT Partners Capitalize on Edge Computing with EcoStruxure™ Micro Data Centers

from Schneider Electric

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Life Is On

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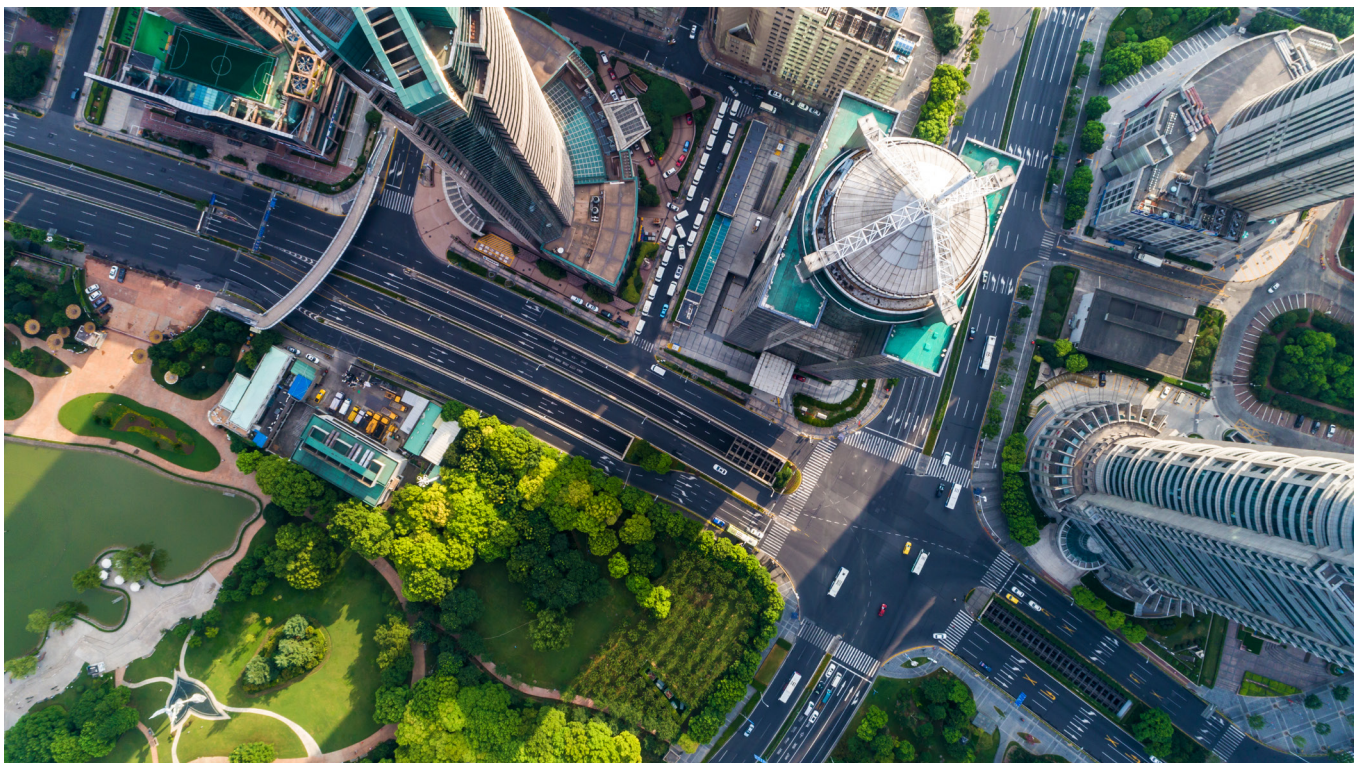
Simplicity at the Edge

Edge deployments let organizations leverage the benefits of IoT by placing compute power and analysis closer to the action. Whether you're running a network of retail stores, a group of geographically dispersed factories or a remote oil pipeline, edge computing enables real-time decision-making whereas in cloud environments, data experiences latency as it travels hundreds or thousands of miles to data centers. This issue goes away with an edge environment.

The edge also reduces bandwidth costs and helps prevent downtime at locations with unstable network connections. But how can any organization run and secure dozens, hundreds or even thousands of edge sites? Not even large multinational enterprises have IT departments large enough to staff every location.

With EcoStruxure™ Micro Data Center from Schneider Electric, you don't need to.

Micro data centers are preassembled, pre-tested, enclosed rack systems with all the components needed to run an edge site, including power distribution units, uninterruptible power supplies (UPS), cooling (when needed), security as well as management software and services. Micro data centers create resilience at the edge with:

- **Standardization** – Pre-integrated standard designs can be replicated across highly distributed areas.

- **Physical security** – Security cameras, environmental sensors, and access controls issue alerts to prevent malfunctions and provide visibility to potential security breaches.

- **Management** – Open, vendor-agnostic software & services provide the visibility, insights and on/offsite support to make it easy to operate sites around the world.

A fit for every environment

Digital transformations are increasingly complex as organizations embrace Industry 4.0 enabling enhanced customer experiences, improved patient care, and disruptive technologies such as artificial intelligence and automation. Running networking and compute at the edge means critical IT now lives in non-IT environments—a factory floor, the busy backroom of a retail store, or a network closet without much space. That's why EcoStruxure Micro Data Centers are made for any environment:

- **R Series** - for harsh environments
- **C Series** - for commercial environments
- **S Series** - for IT environments

EcoStruxure Micro Data Center

Harsh Environment Solution	Commercial & Office Environment Solution	IT Environment Solution
Micro Data Center R-Series	**Micro Data Center C-Series**	**Micro Data Center S-Series**
Environment Description		
• Large amounts of particulate • Threat of water • Heavy traffic / Machinery • Not climate controlled • Less secure	• Occupied space (noise) • Semi-climate controlled (not 24/7) • Less secure	• Purpose built space for IT • Climate controlled • Secure
Applications		
• Warehouse • Manufacturing floor • Remote suites • Cell tower	• Retail / Storefront • Grocery store • Branch office • Airport • Bank	• Network closet • Small server room

Top edge challenges solved…

Micro Data Center tackles the three big pain points with edge computing deployments:
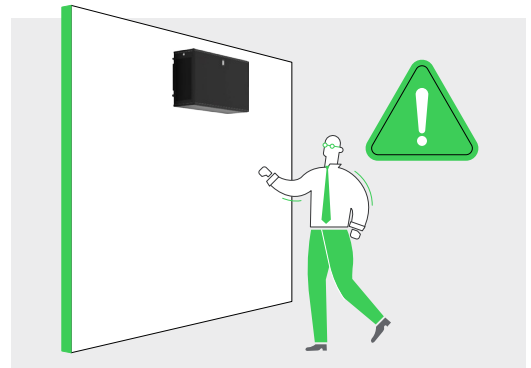1. security, 2. easy, standardized deployments, and 3. managing many locations, onsite and offsite.
Here's how.

Cybersecurity begins with physical security.
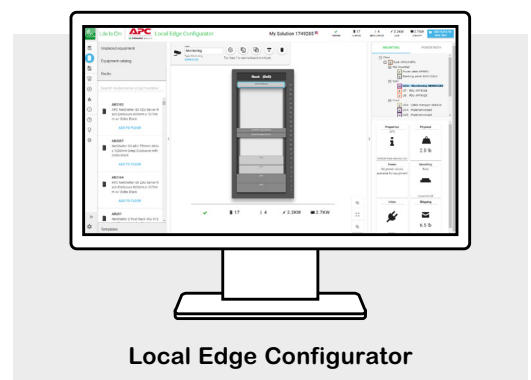
For that, micro data center offers:

- Secure wall-mounted and floor-standing enclosures

- Security cameras with remote viewing

- Access control, standard or intelligent

- Environmental monitoring

Design and deployment are simple.

Micro data centers are highly configurable and easy to design, including validation with third party IT equipment, all through our Local Edge Configurator. It features:
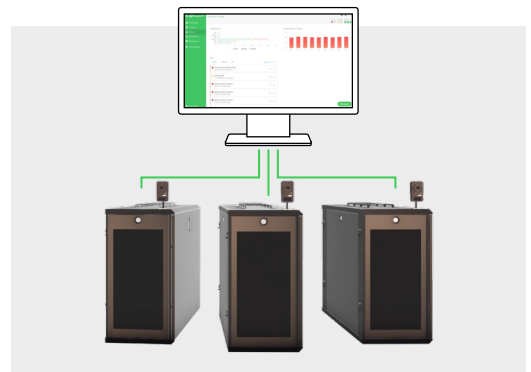
- Reference designs with all major IT vendors

- Guidance and validation at every step

- Option for factory pre-integration & testing

- Full solution ordering, including pre-integration, management software & services

- Configurations saved for repeat orders

- Comprehensive database of third party servers, networking, and storage devices

Local Edge Configurator

Managing multiple sites is no problem.

EcoStruxure IT™ Software & Services enables IT users to mitigate and anticipate risk of failure of their critical infrastructure while reducing operational expenses through an open, vendor-agnostic platform.

Our global footprint and domain expertise in IT infrastructure enable you to gain the right visibility, insights, 24/7 expert remote monitoring, and on-site support.

Drive recurring revenue streams with EcoStruxure™ IT for Partners

Supercharge your service business: 3 steps to incorporating Ecostruxure IT for partners into your business model

Drive recurring revenue streams by reselling subscriptions license packages.

- **EcoStruxure IT Expert** (secure, vendor-neutral cloud-based monitoring software)
- **EcoStruxure IT Expert + EcoStruxure Asset Advisor** (secure, vendor-neutral cloud-based monitoring software, combined with 24/7 expert remote monitoring service by the Schneider Electric Service Bureau)
- **EcoStruxure IT Expert + EcoStruxure Asset Advisor + Virtual remediation**
- **EcoStruxure IT Expert + EcoStruxure Asset Advisor + Physical remediation**

Generate new business opportunities for refresh through both constant, real-time monitoring and ad-hoc, deeper-level personalized assessment tools.

Build customer intimacy with the Ecostruxure IT for partners multi-tenant view generating insights into your customer's operations.

Monitoring & Dispatch Services

Proactive lifecycle management for your distributed IT needs!

Monitoring & Dispatch provides IT Channel partners the ability to create a highly profitable managed service around their customers distributed physical IT infrastructure without adding any fixed costs to their business. We do this through combining the 24/7 expert monitoring of Schneider Electric with on-site support, including replacement parts when required.

Micro Data Center for IT Environments

S-SERIES

Made for server rooms or network closets, our S-Series is highly customizable and easy to configure with hardware, software, and services, including validation of third party IT equipment with all the largest vendors. For full catalogue, partners visit designportal.apc.com to access the Local Edge Configurator.

	Wall Mounted Enclosures	Standard Enclosures	Self-Contained System w/ Cooling
Enclosure			
Enclosure Size H x W x D (mm)	355-620 x 600 x 400 or 600	1200-2258 x 600/750/800 x 1070-1200	2000 x 900/1050 x 1500 2000 x 600 x 1200
Enclosure Size H x W x D (in)	14-24 x 24 x 16 or 24	48-90 x 24/30/32 x 42-48	80 x 36/42 x 60
Total Rack Space	6U, 9U, 12U	12U, 18U, 24U, 42U, 45U, 48U	42U
Available Rack U Space	Configuration Dependent	Configuration Dependent	37U 32U (with InRack Cooling)
Power			
Maximum IT Load	Configuration Dependent	Configuration Dependent	4.6kW 3.5kW (with InRack Cooling)
UPS Capacity	500VA-1.5kW	1 – 20kVA	5kVA
UPS Runtime*	Configuration Dependent	Configuration Dependent	3.5min
Power Input	120V, 230V	120V, 208V, 230V	208V, 230V
Cooling			
Cooling Capacity	N/A	N/A	5kW (InRow SC) 3.5kW (InRack Cooling)
Cooling Type	Vented Enclosure	Perforated Doors	InRow SC (Self-Contained, DX) Uniflair RM (Split DX, InRack)
Security			
Security Options	Standard Lock, Keycard Access, Camera Monitoring	Standard Lock, Keycard Access, Camera Monitoring	Standard Lock, Keycard Access, Camera Monitoring
Environmental Sensing Options	Temp/Humid, Spot Water, Rope Leak, Intrusion Detection, Smoke, Vibration		
Remote Monitoring	EcoStruxure IT Remote Monitoring (Phone App, Web)		
Ship Load-able?	No	Yes (Shock Pkg)	Yes (Shock Pkg – Rack Only)

* Battery Packs available for additional runtime

Micro Data Center for Office and Commercial Environments

C-SERIES

Made for commercial environments, like offices, retail, education, or healthcare facilities, our C-Series includes the same capabilities as S-Series with additional features such as fan ventilation, air filtration, and soundproofing. For full catalogue, partners visit designportal.apc.com to access the Local Edge Configurator.
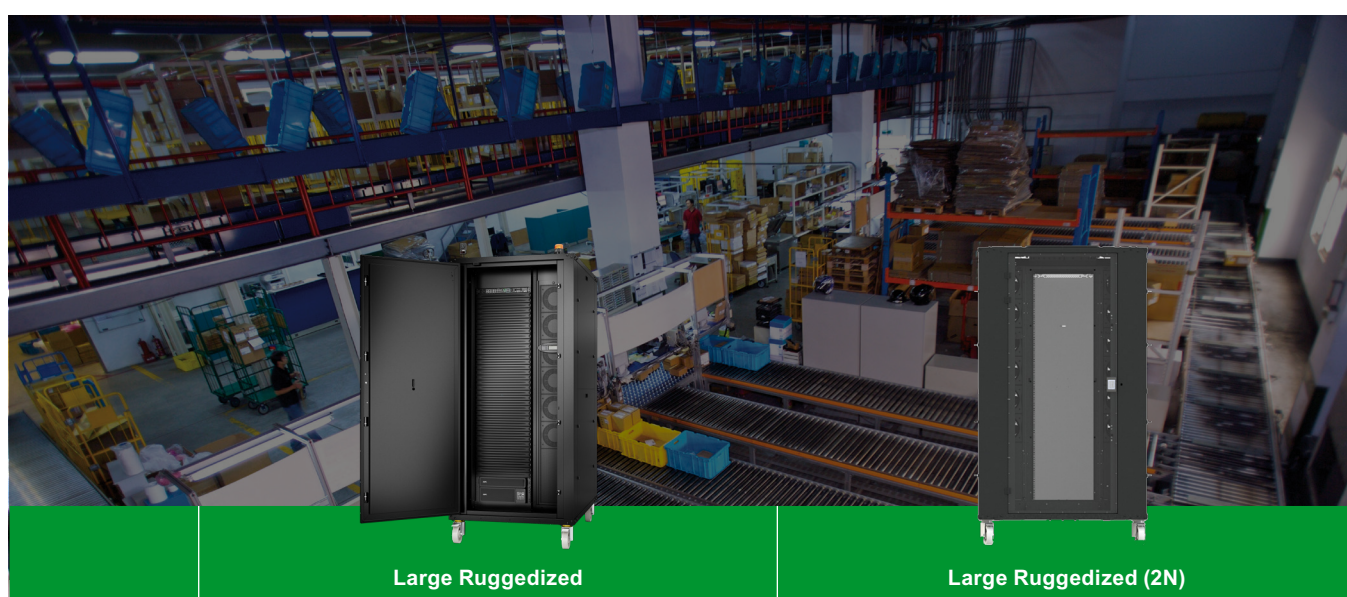

	Low Profile Wall Mount	Mini Soundproof	Small Soundproof	Medium Soundproof	Large Soundproof
Enclosure					
Enclosure Size H x W x D (mm)	650 x 331 x 969	719 x 688 x 962	1015 x 750 x 1130	1275 x 750 x 1130	1950 x 750 x 1130
Enclosure Size H x W x D (in)	26 x 14 x 39	29 x 28 x 38	40 x 30 x 45	51 x 30 x 45	77 x 30 x 45
Total Rack U Space	6U	12U	18U	24U	38U
Available Rack U Space	4U	8U	14U	19U	34U
Power					
Maximum IT Load	1.5kW	600W	1kW	2.2kW	3.6kW
UPS Capacity	1.5kVA	1kVA	1.5kVA	3kVA	5kVA
UPS Runtime*	5min	8min	6min	7min	5.5min
Power Input	120V, 230V	120V, 230V	120V, 230V	120V, 230V	208V, 230V
Cooling					
Cooling Capacity	1.5kW	800W	1.2kW	2.4kW	3.6kW
Cooling Type	Integrated Fans	Integrated Fans	Integrated Fans	Integrated Fans	Integrated Fans
Security					
Security Options	Standard Lock, Camera Monitoring	Standard Lock, Camera Monitoring	Standard Lock, Keycard Access, Camera Monitoring		
Environmental Sensing Options	Temp/Humid, Spot Water, Rope Leak, Intrusion Detection, Smoke, Vibration				
Remote Monitoring	EcoStruxure IT Remote Monitoring (Phone App, Web)				
Ship Load-able?	Yes	No	Yes (Shock Pkg)	Yes (Shock Pkg)	No

* Battery Packs available for additional runtime

Micro Data Center for Harsh Environments

R-SERIES

Made for harsh environments, such as warehouses and manufacturing floors, the R-Series includes sealed enclosures and additional features like active cooling, enhanced filtration and security. For full catalogue, contact your local APC sales representative.

	Large Ruggedized	Large Ruggedized (2N)
Enclosure		
Enclosure Size H x W x D (mm)	2432 x 1070 x 1580 (w/ casters)	2432 x 1370 x 1580 (w/ casters)
Enclosure Size H x W x D (in)	96 x 43 x 63 (w/ casters)	96 x 54 x 63 (w/ casters)
Total Rack U Space	42U	42U
Available Rack U Space	Configuration Dependent	Configuration Dependent
Power		
Maximum IT Load	4.8kW / 8kW	4.8kW / 8kW (x2)
UPS Capacity	5kVA / 8kVA	5kVA / 8kVA (x2)
UPS Runtime*	3.5min / 5min	3.5min / 5min
Power Input	208V, 230V	208V, 230V
Cooling		
Cooling Capacity	5kW (InRow SC) / 10kW (InRow DX)	5kW (InRow SC) / 10kW (InRow DX) (x2)
Cooling Type	InRow SC (Self-Contained) / InRow Direct Expansion (Split)	InRow SC (Self-Contained) / InRow Direct Expansion (Split)
Security		
Security Options	Standard Lock, Keycard Access, Camera Monitoring	Standard Lock, Keycard Access, Camera Monitoring
Environmental Sensing Options	Temp/Humid, Spot Water, Rope Leak, Intrusion Detection, Smoke, Vibration	
Remote Monitoring	EcoStruxure IT Remote Monitoring (Phone App, Web)	
Ship Load-able?	Yes	Yes

* Battery Packs available for additional runtime

Ready to get started with EcoStruxure Micro Data Center Solutions?

Our partners love working with Micro Data Center & EcoStruxure IT Software & Services at the edge!

How to order?

- Login to Partner Portal

- Visit the Local Edge Configurator at designportal.apc.com

Why APC?

Better leads. Better discounts. Better margins.

- Register your Micro Data Center project in our Opportunity Registration Program (ORP) and receive exclusive discounts

Provide predictable revenue and reduce operational expenses.

- Use our open, vendor-agnostic EcoStruxure IT Software & Services to establish managed services portfolio to critical infrastructure and mitigate risk.

Simple, trusted designs for the most complex customers.

- Certified reference designs with the largest IT vendors

- Rules-based design tools for certain, repeatable rollouts

- Option to pre-integrate for reduced risks after delivery

Offer the largest portfolio of end-to-end solutions for edge environments.

- APC by Schneider Electric offers the complete package with an edge computing solution portfolio of hardware, management software and services. Our global footprint also allows for standardization and easy deployment across geographies. We've got you covered.

Not a partner yet?

Become a partner today and take the smart path to business growth. We've streamlined the Partner Program to make it even easier to take advantage of industry-leading tools and training.

Learn more about about partners and alliances at apc.com.

Access Resources on Edge Computing and Micro Data Solutions

Read more ›

Edge Computing Site (Resource Page)

Read more ›

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