Improve data speed, reliability, and protection at your factory or warehouse

IT solutions for industrial environments

Edge infrastructure and digital tools for rugged environments

Connected operational technology (OT) such as digital twins and robotics help companies operate smarter, distribute faster, and meet evolving customer demands. But these solutions also require nearby compute power to manage data and enable IIoT applications.

Many industrial environments such as warehouses and factory floors weren't built with IT in mind. They're prone to dust, moisture, and temperature variations — all of which can damage traditional edge control solutions and result in unexpected downtime and costs.

So how do you get the local edge control you need for Industry 4.0?

This brochure highlights industrial edge computing solutions that enable resiliency, maintain equipment synchronization, and protect against downtime — designed to withstand rugged indoor environments.

se.com/us

Life Is On | Schneider Electric

Industrial IT rack solutions

Resilient, all-in-one micro data center

EcoStruxure™ Micro Data Center R-Series

Solution at a glance

EcoStruxure Micro Data Center R-Series pre-integrates your choice of power, cooling, physical security, and management software into NEMA and IP-rated rack solutions built tough for rugged indoor environments.

Features and benefits

- **Deploy** in harsh environments with NEMA 12 and IP54 ratings
- **Install** fast with a single, self-contained enclosure
- **Enhance** security with essential access control
- **Manage** infrastructure 24 / 7 with an open, vendor-agnostic platform

*View the R-series model comparison table on page 3

apc.com/rugged-mdc

Fully-configurable equipment protection

NEMA 4 enclosures

Solution at a glance

For custom needs and outdoor applications, NEMA 4 enclosures offer enhanced equipment protection in harsh environments. Each unit is configurable with cooling, load centers, outlets, and other APC™ and Schneider Electric™ solutions.

Features and benefits

- **Protect** equipment with NEMA 4 rating
- **Integrate** cooling to protect IT loads
- **Deploy** fast with an average lead time of 4 – 6 weeks
- **Customize** to any application, including:
  - Single, double, and triple bay enclosures
  - 25", 34", 42" enclosure depths
  - Air conditioning
  - Load centers and circuit breakers
  - UPS, NetBotz™, rack power distribution units, and other integrated accessories

For sales inquiries, contact ddb@se.com

R-Series model comparison

	NEW 16U wall mounted	NEW 24U	NEW 42U	NEW 42U W (wide)	42U HD (high density)
Enclosure (part no.)	NSYVDM16U4P	NSYSFRSEDC12680	NSYSFRSEDC20680 NSYSFRSEDC206100	NSYSFRSEDC208100 NSYSFRSEDC208120	PFMSB50042NA PFMSB51042NA
H x W x D (mm)	800 x 600 x 400	1300 x 600 x 800	2100 x 600 x 800 2100 x 600 x 1000	2100 x 800 x 1000 2100 x 800 x 1200	2432 x 1070 x 1580 (w/ casters)
H x W x D (in)	31.5 x 23.6 x 15.8	51.2 x 23.6 x 31.5	82.7 x 23.6 x 31.5	82.7 x 31.5 x 39.4	96 x 43 x 63 (w/ casters)
			82.7 x 23.6 x 39.4	82.7 x 31.5 x 47.3	
Total rack U space	16U	24U	42U	42U	42U
Available Rack U Space	Configuration dependent	Configuration dependent	Configuration dependent	Configuration dependent	Configuration dependent
NEMA / IP rating	IP66 / IP54	NEMA 12 / IP54	NEMA 12 / IP54	NEMA 12 / IP54	none
Power					
Maximum IT load	500 W	1.5 kW	2 kW	2 kW	4.8 kW / 8 kW
UPS capacity	500 VA	1 – 1.5 kVa	1 – 3 kVa	1 – 3 kVa	5 kVA / 8 kVA
UPS runtime	Configuration dependent	Configuration dependent	Configuration dependent	Configuration dependent	3.5min / 5min
Power input	208 V, 230 V	208 V, 230 V	208 V, 230 V	208 V, 230 V	208 V, 230 V
Ventilation / active cooling					
Cooling capacity	up to 0.5 kW	up to 1.5 kW	up to 2 kW	up to 2 kW	5 kW / 10 kW
Cooling type	Fan ventilated (IP54 when ventilated)	Fan ventilated	Fan ventilated	Fan ventilated	Self-contained / Split DX
Security					
Security options	Yes (Phone, App, Web)				
Environmental sensing options	Yes				
Pre-installed IT	No				Yes
Assembly / warranty	Ships fully assembled / 1 year warranty				

Industrial IT and critical process power solutions

Maximize power availability and performance
Galaxy™ VS

Solution at a glance
Galaxy VS is a modular, efficient three-phase UPS with a robust design that ensures load protection in both IT and non-IT environments.

Features and benefits
- **Keep** equipment running in sync and protect against operational losses or quality issues during power outages
- **Operate** in harsh environments with fault-tolerant design, high-quality air filter, high operating temperature, conformal coating, seismic certification, and more
- **Available** in 10 – 150 kW
- **Install** and **service** faster with modular architecture
- **Ensure** predictable runtime and battery redundancy with integrated smart battery modules
- **Reduce** energy spend with ECOnversion™ mode for zero-break transfer design
- **Scale** your protection as load requirements evolve
- **Deploy** in rugged indoor environments with the NEMA 12 adapter kit (GVSOPT033)

se.com/gvs

Ruggedized battery backup or the industrial edge
Smart UPS single phase (1300 VA and 2000 VA)

Solution at a glance
The Smart-UPS™ provides reliable backup power when the utility power fails and reduces safety hazards and loss of communication.

Features and benefits
- **Enable** greater safety of your operations
- **Drive** business continuity, even in harsh environments with high humidity and pollution
- **Eliminate** time-consuming maintenance with field-replaceable fans and filters
- **Manage** remotely

apc.com/secure-ups

Monitor and manage critical IT infrastructure on-premise, in the cloud, and at the edge

EcoStruxure™ IT

Solution at a glance

EcoStruxure IT connects data center infrastructure for visibility and control needed to optimize operations. This solution includes:

- **EcoStruxure Asset Advisor** for incident tracking, proactive services, and 24 / 7 remote asset monitoring
- **EcoStruxure IT Advisor** software for centralized visualization, asset management, capacity management, risk mitigation, and more
- **Monitoring and dispatch services** for remote and on-site monitoring, management, and support
- **EcoStruxure IT Expert** for monitoring, incident management, analysis, and asset utilization

Features and benefits

- **Gain** visibility across your entire facility with web and mobile access
- **Monitor** all assets and systems, regardless of vendor
- **Anticipate** potential risks using operational data and analytics
- **Deploy** in any environment

ecostruxureit.com

se.com/us

Life Is On | Schneider Electric