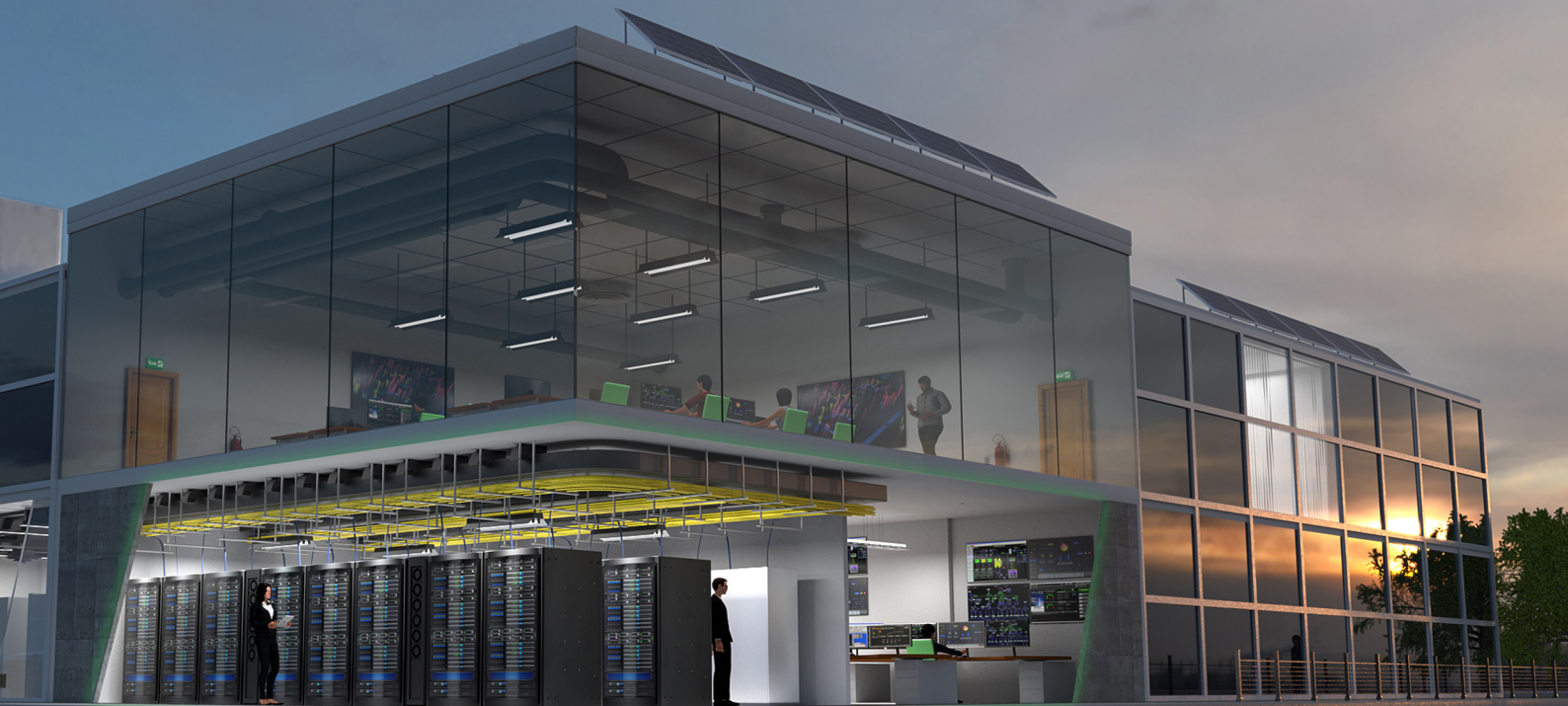




EcoStruxure Row Data Center

IT deployments made simpler,
faster, and more predictable, on
premise and at the edge.



schneider-electric.com

Life Is On

Schneider
Electric

EcoStruxure Row Data Center



Rack Systems



Power



Cooling



Management



Security



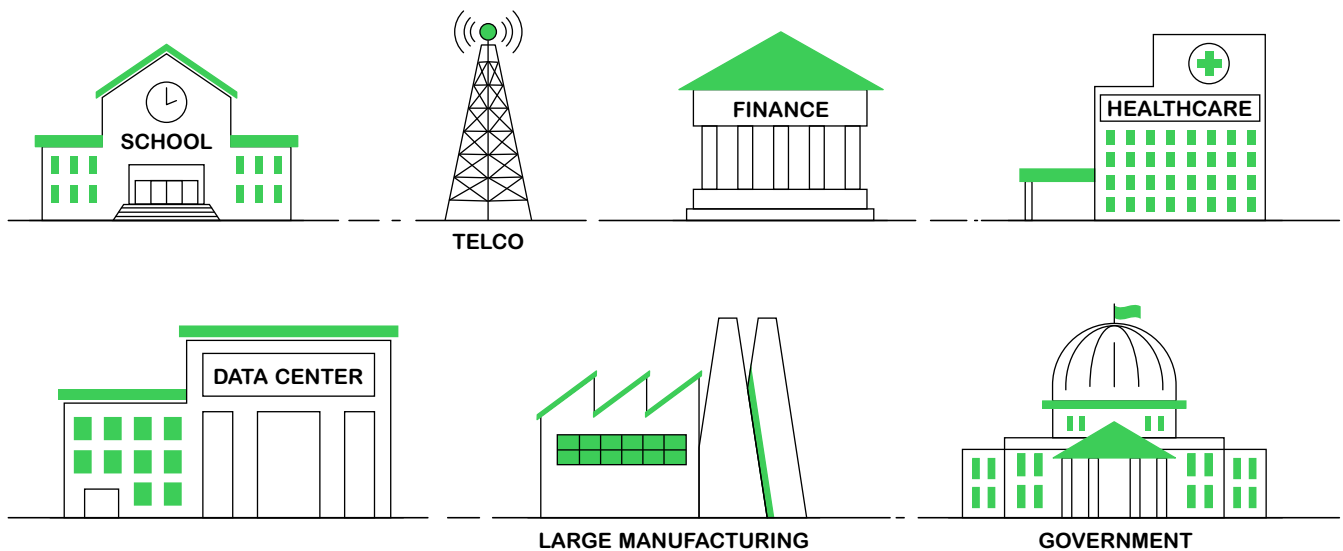
Services

When you need to deploy IT—and fast—it doesn't have to be complicated or time-consuming. EcoStruxure™ Row Data Center puts all the building blocks of physical infrastructure—power, cooling, security, and management software—into the rack instead of building out the entire room. It means less construction, more flexibility in location, and ability to scale quickly when you need it, whether it's a new build or retrofit. 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.

EcoStruxure Row Data Center provides simplicity, speed, and predictability to all phases of your project:

- **Design:** With our best-in-class design tool, quickly and easily created validated designs that are orderable as a single solution.
- **Build:** Your solution bill of material arrives complete and ready-to-assemble quickly and easily.
- **Operate:** Row Data Center is designed for easy operation and quick maintenance. Now with our EcoStruxure IT software & services you gain the right visibility, insights, 24/7 expert remote monitoring, and on-site support.

EcoStruxure Row Data Center for the evolving hybrid IT world



Deploying IT at the Edge?

EcoStruxure Row Data Center simplifies how you build and manage your multi-rack deployments throughout your network, whether that's a regional data center or other edge environments.

Starting a new or retrofit project?

The flexible row-based architecture is adaptable and simplifies planning, design, and deployment of your IT.

Modernizing your existing IT deployment?

The modular nature of Row Data Center minimizes the cost and complexity of modernizing infrastructure.

Deploying converged IT?

Row Data Center allows you to deploy physical infrastructure at speeds in line with Converged IT.

Outsourcing or consolidating?

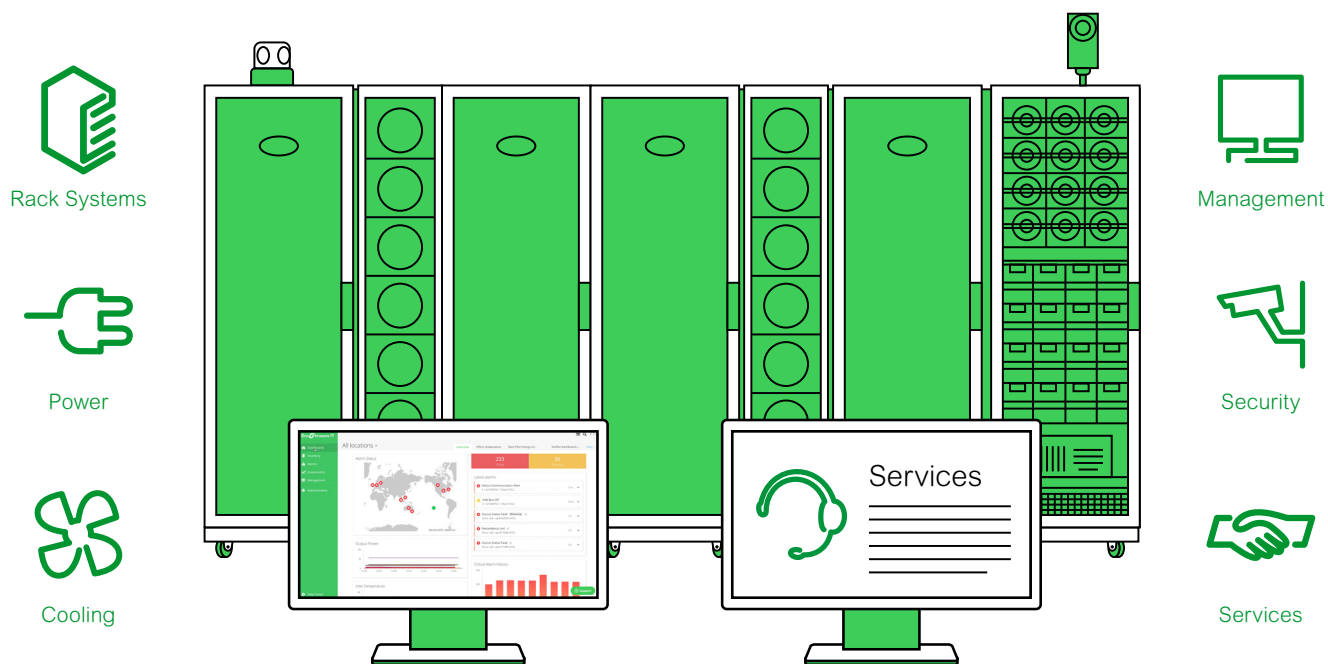
Protect and secure your remaining IT while easily monitoring and managing all of your assets across all locations from one dashboard using the EcoStruxure IT software suite.

Expanding capacity?

Scale fast with pre-engineered, modular Row Data Center components.

EcoStruxure Row Data Center Building Blocks

Best-in-class components are configured into a complete solution



From small to large to multi-row configurations, Row Data Center adapts to your needs.



Rack Systems

Engineered to integrate seamlessly with Row Data Center components, simplify shipping, speed installation, facilitate the installation of IT, and maximize airflow.

NetShelter SX rack enclosures offer the most standard features on the market today. Influenced by 10 years of customer feedback, Schneider Electric specifically engineered the next generation NetShelter SX enclosure to handle today's power-hungry, high density server and networking applications.



Features

1. Cable access roof
2. Integrated baying brackets
3. Preinstalled leveling feet and castors
4. Toolless, Zero-U accessory channel
5. Easily adjustable vertical mounting rails
6. Half-height side panel

Variety of enclosures

1. Range of heights: 42U – 52U
2. Range of widths: 600mm, 750mm, 800mm
3. Range of depths: 1070mm, 1200mm
4. Color options: Black, White, Grey

NetShelter Containment

Aisle or rack based thermal containment solution to increase cooling system efficiency while protecting critical IT equipment and personnel

- Active flow control
- Flexibility in design for hot or cold aisle
- Fire safe system
- Build value with LED lighting kit
- Safe sliding doors
- Front or rear rack based containment



NetShelter Aisle Containment

Cable Management Options

Wide range of cable management accessories designed to easily route cables within racks and along a row solution

- Horizontal & vertical cable options
- Overhead routing options



Horizontal Cable Management

Vertical Cable Management

Power

Rack Power Distribution

Schneider Electric rack power distribution units (PDUs) have sufficient power and receptacle outputs to meet high kW loads in a minimal amount of space.

Varieties

1. **Basic Rack PDU:** Entry-level power distributor for rack-mount equipment
2. **Metered Rack PDU:** Advanced power distribution provides real-time remote monitoring of connected loads
3. **Switched Rack PDU:** Premium power distribution allows remote control of individual outlets and monitoring of aggregate current consumption
4. **Metered-by-outlet:** Provides real-time remote monitoring of each outlet
5. **Rack Automatic Transfer Switch:** Provides redundant power to single-corded equipment



Colored locking IEC cords

Locking IEC power cords in a variety of colors provides an easy identification feature for rack power distribution.

Modular Power Distribution

Modular power distribution up to 277 kVA that is engineered for Row Data Center solutions and is scalable, agile, safe, and efficient to enable rapid expansion or reconfiguration in the future

- Minimal white space footprint
- Truly safe with scalable modules
- Toolless expansion
- Preconfigured breakers and cord sets for ease of deployment
- Fully compliant, global offering
- 72 kW 5U PDU, 144 kW PDU, 266 kW PDU, 277 kW PDU



Power

UPS

Schneider Electric is a global leader in uninterruptible power supplies and power distribution systems that ensure safe, clean, and reliable power regardless of the state of the utility grid or power supply.

Three-Phase UPS

Symmetra PX

Modular three-phase power protection from 10 – 500 kW with ultra-high availability, scalable for any size data center or mission critical environment

- Fault-tolerant (N+1) design for highest level of availability
- Corrected unity power factor using double conversion technology
- Modular and scalable without forced shutdowns to allow for right-sized deployments
- Rack-based for agility and aesthetics

Single-phase UPS

Smart UPS

0.75 – 5 kVA, advanced line interactive power protection for servers and network equipment with advanced management in a tower or rack optimized form factor

- Smart external battery connector
- Emergency power off
- Predictive battery replacement
- Alpha numeric LCD display
- High-efficiency green mode
- Slim 2U rack/tower convertible

Smart UPS On-line

1 – 20 kVA, rack and tower convertible, double-conversion, on-line UPS with advanced management features to provide online power protection for servers, networks, and light industrial applications

- High power factor
- High-efficiency “Green Mode”
- Flash upgradable firmware
- Enhanced intelligent battery management
- Embedded NMC with environmental monitoring
- Up to unity power factor (pF)



Cooling

Schneider Electric offers a comprehensive portfolio of high-efficiency cooling solutions for virtually any need in critical IT environments, from network closets and server rooms to data centers of all sizes.

Close-coupled, InRow Cooling

Close-coupled InRow™ cooling systems are engineered for our Row Data Center solution and can be configured through the ISX Designer tool to ensure the right number of cooling units and all of the parts and subsystems to match the given the heat load, density, and redundancy levels

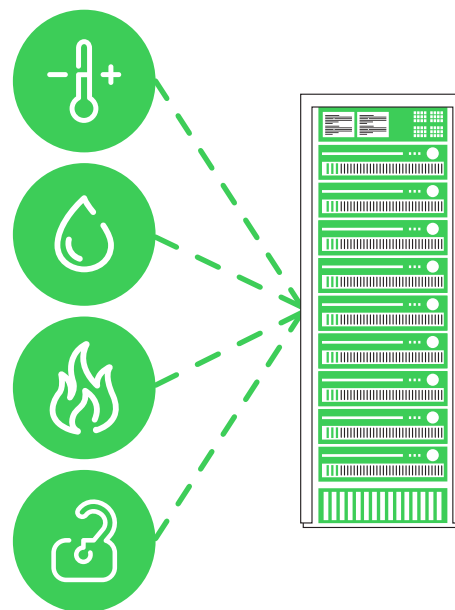
- InRow Chilled Water (up to 70 kW)
- InRow DX (up to 37 kW) including new InRow DX 300mm
- InRow DX Self Contained (up to 10kW)
- Minimizes air mixing greatly improving predictability
- Increases efficiency using variable speed fans & shortening air path
- Designed to seamlessly integrate with row solutions
- Active response controls that vary cooling capacity to match heat load



Security

Schneider Electric offers a comprehensive Netbotz portfolio to enable the monitoring and security of your Row Data Center solution.

- Rack mount and wall mount appliances designed to provide a wide range of environmental monitoring and surveillance for sensitive equipment
- Sensors include wireless & wired temperature and humidity, smoke, vibration, and fluid detection
- Sensor pods, USB camera pods, and HID rack access pods connect to appliances via USB or Cat-5 cabling
- Rack Access Control tailored to data center and edge environments provide permission-based entry and audit trail



Take control of on-premise and edge environments with EcoStruxure IT Software & Services

Distributed IT edge and on-premise environments present new challenges:

- 1 IT infrastructure is becoming more complex and more difficult to manage.
- 2 There is a lack of visibility and insights into IT infrastructure across many locations.
- 3 There is no IT staff or IT expertise at the site.
- 4 This reactive approach is having a negative economic impact on the IT infrastructure.

EcoStruxure IT Expert makes your life easier by putting you back in control.



Visibility across all your locations and devices provides a complete view of your equipment.



Reporting shows you where to focus your attention first.



Assessments help you proactively mitigate risk, improving operational efficiency and work-life balance.



Use data as proactive guidance for management.

The question is, do you want help operating your system efficiently and managing it proactively?

Monitoring & Dispatch Services

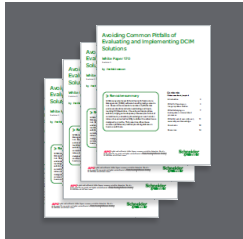
Proactive solution management for your distributed IT needs

Experts from the Schneider Electric Service Bureau or your preferred partner are your trusted advisors for your distributed IT infrastructure. Combining 24/7 remote monitoring, proactive troubleshooting and resolution, and on-site remediation for issues that require hands-on assistance.



What is next?

Looking to learn more and analyze different options to move forward?



Explore our library of fact-based, vendor-neutral white papers by Schneider Electric.

[Read more >](#)



Learn more about Row Data Center and related products.

[Read more >](#)

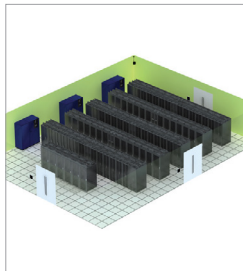
Want to review our extensive library of validated solution designs?



Explore our library of reference designs that come with full conceptual plans and act as a great starting point for discussion and planning for any project.

[Read more >](#)

Ready to move forward on a design and proposal for your site?



Schneider Electric offers a best in class solution design tool that enables drag and drop configuration of Row Data Center solutions and provides drawings, bill of material, and engineering validation.

[> Contact your local Schneider Electric representative or certified partner](#)

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