



Edge computing reference design for industrial applications

Based on Stratus ftServer technology

In enterprise IT, the name Stratus is synonymous with terms like “zero touch edge computing” and simple, autonomous, and protected platforms. Now, Stratus is partnering with Schneider Electric to deliver complete EcoStruxure Micro Data Center solutions to support hyperconverged infrastructure (HCI) in locations where reliability is a must: edge data centers.

As more and more computing takes place at the edge of corporate networks, companies are revisiting and optimizing the architecture, deployment, and management of their edge computing infrastructure. EcoStruxure Micro Data Center solutions deployed close to where your applications are running offer the performance, reliability, and efficiency of a standardized solution, while also providing protection for IT equipment that often must coexist in non-IT environments.

EcoStruxure Micro Data Center solutions that include Stratus ftServer offer reduced latency for Industrial Internet of Things (IIoT) and other applications to promote real-time decisions. With Stratus ftServer, your EcoStruxure Micro Data Center delivers the kind of resilience and continuous availability that business-critical edge computing applications require.

And, Schneider Electric’s EcoStruxure IT software and services allow for remote management, reducing the need for and cost of on-site IT support staff.



Designed in collaboration with:



apc.com/edge

Life Is 



Specifications

Stratus ftServer and Schneider Electric reference design

Stratus ftServer provides greater than 99.999% uptime, making continuous availability a reality even at the network edge. Schneider Electric worked closely with Stratus and AVEVA to create a purpose-built, pre-integrated edge computing solution combining the Stratus ftServer with Schneider Electric's EcoStruxure Micro Data Center enclosures and supporting infrastructure — all pre-validated to fully support AVEVA System Platform edge applications. The result is an integrated, continuously available platform that's easy to deploy, manage, and service.

Stratus ftServer features and benefits

- Greater than 99.999% availability
- Automated Uptime Layer features multi-path I/O failover to prevent lost transactions and data loss or corruption

- Industry-standard components: x86 processors, memory DIMMS, SSDs, and HDDs
- Active service architecture: self-monitoring, self-diagnosing system simplifies systems management
- Single system with redundant hardware presented as a single system — only one OS or application license required
- Hot-swappable customer replaceable subsystems and components

Complete edge solutions

Schneider Electric provides all required data center physical infrastructure and remote management software in a single self-contained, secure enclosure for converged and hyperconverged architectures. You save engineering time and reduce risk while delivering a complete, optimized, highly energy-efficient IT solution.

Type	Part Number	Description
Rack	3103	APC NetShelter SX 12U Server Rack Enclosure 600mm x 1070mm w/ Sides Black
UPS	SRT2200RMXLI-NC	APC™ Smart-UPS SRT 2200VA RM 230V Network Card
PDU	AP7920B	Rack PDU, Switched, 1U, 12A/208V, 10A/230V, (8)C13
Security & Environmental Monitoring	NBRK0250 or NBRK0750* NBPD0165 (optional)	NetBotz™ Rack Monitor 250 or NetBotz Rack Monitor 750* NetBotz Camera Pod 165 (optional)
Sensor	NBES0303 (Qty 2)	NetBotz Door Switch Sensors (2) for an APC Rack - 12 ft.
Blanking Panel	AR8136BLK	1U 19" Black Modular Toolless Airflow Management Blanking Panel - Qty 10
Other	AR8471	AR106V Caster Kit
Software & Service	SFTWES5-DIGI and/or WEXTWAR1YR-SP-02	EcoStruxure IT Expert Access for 5 Nodes and/or 1 Year Extended Warranty (Renewal or High Volume)
Stratus	---	Stratus ftServer 2900

*Required for NBPD0165

Explore edge computing solutions at apc.com/edge

Schneider Electric Industries SAS

35, Rue Joseph Monier 92506
Rueil Malmaison, France

Life Is On 

