Making IT Rack deployment simple, fast and easy into Buildings

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Agnès Beverini & Oscar Pons – Category Managers Rack Systems & Edge



Digital transformation is driving IT everywhere...

Healthcare		Digital Health	E-Health botic Surgery
Education Research		Digital learning Sup Innovation Labs	MOOC HPC Der Calculateur e-Campus
Local authorities		Green City Smart	
Public Sector		e-Administration Smar	rt Grid
	amazongo	Magic Mirror Connected She	op e-Beauty
Retail		Phygital Grocery s with self-c	

Every segment is digitizing.....

Hotels	Personalized welcome Customer Experience Automated Check-in & out Keyless Connection Quality On-line checking
Industry	IIOT Lean Industrie 4.0 Industry of the future M2M Big Data
Logistics	RFID labelsFlow ManagementSecurityTraceabilityInventory DronesAutomated storageLocation ManagementStacker cranes
Transportation Mobility	e-Mobility Autonomous Vehicules Intelligent Traffic Geolocation Security Embedded processors

Digital innovation and transformation is accelerating very fast

ΙοΤ

80Mds

connected things* By 2025 Big Data

generated data from 33 ZBs today to 175 ZBs by 2025*

*IDC, 2018

Artificial Intelligence

worldwide spending on cognitive and AI systems btw 2017 & 2022

Edge Computing 75%

of enterprise datas will be created at the edge

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Edge computing bridges these challenges

Bringing computing closest to the experience

CENTRALIZED

Massive compute and storage located in remote areas

REGIONAL EDGE

Large compute and storage located in central or urban areas

LOCAL EDGE

Compute and storage where data is generated and consumed

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Local infrastructure often looks like this...



No cable management



Non secured enclosures

No monitoring



Lack of dedicated cooling



The Solution...is Micro Data Center

What is a Micro Data Center?

Micro-Datacenters are IT Infrastructure pre-engieneered, pre-tested, pre-assembled enclosed rack systems with all the components needed to run an edge site, standardized, easy to deploy and highly secured.

They include power distribution units, uninterrptible power supplies (UPS), cooling (when needed), security as well as management software and services









EcoStruxure™ Micro Data Center Fits in any environment !



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Grocery Store Chain



Customer Challenge

- Optimized IT infrastructure to manage their stores
- Single Vendor solution standardized across many stores to support refrigeration systems and security systems and other applications in back-office stock space
- Limited technical staff and disparate equipment systems across many of the franchise stores,

Our Solution

- 6U Wall-Mount enclosure
- UPS + Rack Power distribution
- Environmental monitoring & Management Software

Optional Services

Customer Benefits

- Simplified ordering, delivery and management of an allin-one system for IT infrastructure with reliable high quality products
- Our solution allows store owners to focus on their core business instead of IT.
- More stocking revenue: The 6U's compact form factor allows stores to convert more space to revenueproducing stock area.



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✓ Certification to global standards

Building blocks of Micro Data Center Infrastructure





Why Easy Rack & rPDU?

Making IT Rack Deployment Simple, Fast, Easy



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Enclosed 19" Rack types

	Data Rack	Enhaced networking Rack	Server Rack	Specialty Racks
Main application	Network connectivity	Networking applications	Computing, edge, high density	sound proof, seismic, self- contained cooling, harsh environment
Assembled equipment	Primarily passive	Active and passive	Primarily active	-
Power density	Low	Mid, High	Mid, High	-
Common construction	Front glass door Rear solid door Low static load	Perforated front and rear doors, side air mng., Mid static load	Perforated front and rear doors, avoid air bypass, High static load	-
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				Life Is On Schneid

Easy Rack Applications



Server Applications

Fully assembled with essential features for quick rack & stack of servers:

- Numbered u-spaces
- Easily removable doors/sides during installation
- Pre-installed accessory brackets for PDU & cable management installation

Networking Applications

Multiple sizes and adjustments for networking applications:

- Integrated vertical 1U patching spaces
- Available in 800mm width
- 800mm & 1200mm depths for shallow and/or deepest requirements
- Adjust mounting rails back for port side of network switches
- Roof with cable egress
- New-added dimension in 42U x 800mm W x 800mm deep

Edge Applications



Smaller enclosures with essential features quick edge deployments :

 New-added dimension in 24U x 600mm W x 1000mm D and 24U x 600mm W x 1200mm D



From network closets, to data centres







Easy Rack

most common accessories included and preinstalled

APC Developed

Locks on front, rear, side pannels. Option of HID proximity card & Combination Lock

Flat vented doors. 81% ventilation rate, hexagonal pattern

Integrated ground connections

Flat-Pack version to reduce transportation costs



Overview Video & WP



https://youtu.be/U02eovGPQwM



Easy Rack Application example 800mm width





More than **889** additional checked accessories compatible.





Overview Easy rPDU

Making IT Rack Deployment Simple, Fast, Easy





Easy Rack PDUs Features

Easy Basic Rack PDUs

Reliable power distribution

Easy Metered Rack PDUs

- Real-time remote monitoring of connected loads
- User-defined alarms warn IT and data center managers of potential circuit overloads to prevent accidental power loss to critical equipment

Easy Switched Rack PDUs

- Metered functionality
- Switch on/off the connected power load remotely

Easy MBO/SMBO Rack PDUs

- Metered by outlet functionality
- Switch on/off the connected power load remotely



	Basic	Metered	Switched	Metered-by- Outlet	Metered-by- Outlet with switching
	EPDU1xxxB	EPDU1xxxM	EPDU1xxxS	EPDU1xxxMBO	EPDU1xxxSMBO
Design feature					
Ultralow-profile, space-saving design		√		√	√
Hydraulic-magnetic circuit breakers (in units with 32A input current)	√	√	√	√	√
Environmental monitoring port for external temperature/humidity monitoring		√	1	√	1
Availablity for regional outlets socket type	√				
Display and network management					
Full-featured network management capability via Web and SNMP		√	√	1	1
User-interactive LCD display for local access		√	√	√	√
Network port sharing			4	4	4
Metering capability					
Metering Accuracy		±3%	±3%	±1%	±1%
Active current measurements (amps)		√	√	√	√
Active power measurements (including volts, amps, real power (kW) and energy (kWh))		√	1	√	4
User-customizable alarms and warnings		√	√	√	√
Embedded log memory to record/review/report		√	√	√	1
Individual outlet power metering				√	√
Use access control with two levels		√	√	√	√
Outlet control					
Individual outlet remote power on/off control			√		√
Power-on sequencing and time delays with full user customization			√		√
Outlet level grouping (multiple outlets in same or multiple units follow single command)			1		4
Use access control with two levels		√	√	√	√
Environmental					
Maximum operating temperature	45°C	45°C	45°C	45°C	45°C
Maintenance					
Warranty	1 year	1 year	1 year	2 year	2 year





Overview Video



https://youtu.be/6OKiK8VQCEU



Highlights of Easy Rack System

Easy to select

Single PN with all components & accessories

Easy to operate

Minimization of downtime Supervision & management options Easy to install

Pre-assembled system, Tool-less components Quick to deploy

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Thank you!

How to start?

We'll be delighted to help you,

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