MICRO DATA CENTER
INDOOR SOLUTIONS

Brochure

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MICRO DATA CENTER KEY BENEFITS

Network Closets are Being Replaced by Smart Cabinets in the Office and Factory

Easy Deployment
Pre-manufactured and fully tested means for rapid deployment and installation.
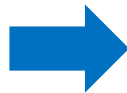
Easy Management
Standardized architecture and remote monitoring allows greater management of critical IT assets, lower operational costs, and higher service levels.

Easy Expansion
A stand alone fully-function solution with expandable options. Plan and invest your IT assets step-by-step while your business grows.

Eliminate the Server Room or Network Closet with a Micro Data Center

Network Closet or Server Room

Micro Data Center

Common Edge-Computing Devices

- Firewall
- Router
- Rackmount Server
- Modem
- Switch
- Patch Panel
- IoT Devices
- Rackmount UPS

MICRO DATA CENTER – SINGLE RACKS
Select the Best Smart Cabinet Configuration for your Edge-Computing Application

Monitoring System
Remote monitoring to view, control, alert, and report conditions via environmental, video, access control and smoke monitoring.

Security System
Integrated access control and camera monitoring ensuring safety in public or low security areas.

Precision Cooling System
Rack or top-mounted, contained system designed to remove heat, maximize efficiency and reduce noise. Emergency ventilation as back-up fail-safe system.
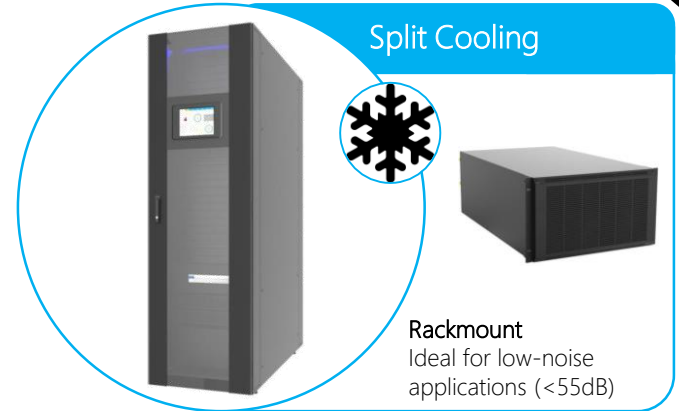
Power System
High efficiency rackmount UPS & battery system protect IT equipment from poor power system quality and reliability. Built-in bypass, PDU, metering and management including short-circuit and surge protection and optional N+1 and 2N redundancy.
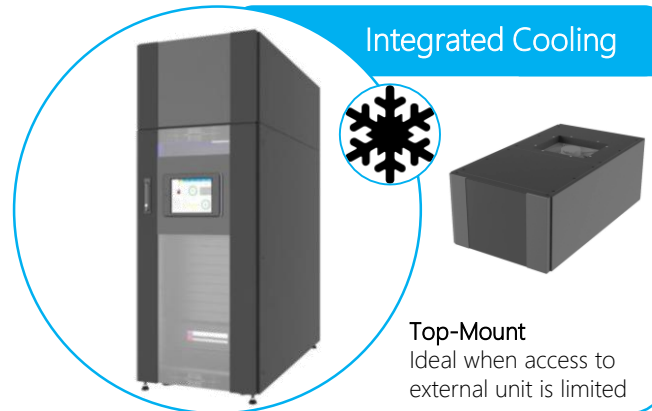
Smart Cabinet

Fan Cooling
Easiest to install and manage for basic applications

Split Cooling

Rackmount
Ideal for low-noise applications (<55dB)

Integrated Cooling

Top-Mount
Ideal when access to external unit is limited

High-Density Cooling

Higher Capacity
Ideal for applications with high-power devices

MICRO DATA CENTER – SINGLE RACKS
Technical Specifications

Product Type	Fan Cooled	Integrated Cooling (Top)	Integrated Cooling (Top)	Split Cooling (Rackmount)	High Density Split Cooling (Side)
Available RMU	18	18	25	28	34
Width (mm)	600, 800	600, 800	600, 800	600, 800	900
Depth (mm)	1100	1100	1100	1400	1400
Height (mm)	1200	1590	2000	2000	2000
IP Rating	IP42, 54	IP42, 54	IP42, 54	IP42, 54	IP42, 54
Cooling Capacity (kW)	2.0	2.5	3.5, 5.5	3.9, 5.0	5.6, 7.6
UPS Output (kVA)	3kVA + Battery	3kVA + Battery	6kVA + Battery	6kVA + Battery	6, 10kVA + Battery
PDU	Basic (8xC13)	Basic (8xC13)	Basic (16xC13)	Basic (16xC13)	Basic (16xC13)
HMI	Included	Included	Included	Included	Included
Sensors	Temp/Humid Smoke, Door	Temp/Humid Smoke, Door, Water	Temp/Humid Smoke, Door, Water	Temp/Humid Smoke, Door, Water	Temp/Humid Smoke, Door, Water
Emergency Door Operation	Included	Included	Included	Included	Included

MICRO DATA CENTER – AISLE SOLUTIONS
Key Benefits

Lowest Total Cost of Ownership
Lower investment than traditional data center construction

Expandable Monitoring
Monitoring system communicates through bus-level protocol

Modular Cooling
3.9kW rack cooling and 5kW-41kW in-row cooling

Modular Power
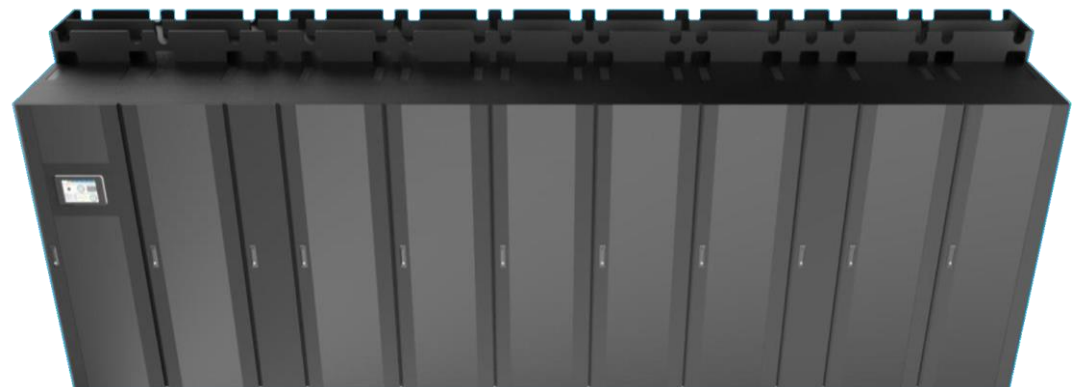3kVA-50KVA modular UPS.

Modular Cabinets
Cabinets and cold & Hot Aisle are easily combined to form a fully integrated row solution

In-House Design and Fabrication
Experienced engineering and design team

Pre-Engineering and Testing
Pre-fabrication with quality

MICRO DATA CENTER – INDOOR SOLUTIONS
System Options

Intelligent PDU

1U and 0U Managed Models
Remote monitoring and device reboot, eliminating on-site service for system check.

Video Camera

NVR and IP Camera
High definition monitoring and recording ideal for remote system monitoring and security.

Electronic Door Locking System

RFID, Fingerprint and Access Card
Electronic access for greater system security. Ideal for areas with employee access.

Fire Suppression (FM200)

Automatic Rackmount System
Auto-senses and deploys environmentally safe agent to protect critical IT assets.

SMS Alarm Module

Automatic Operation
User-defined alarms for SMS or email alerts including environmental, power and security status.

Power Distribution Module (PDM)

System Protection
Incorporated breakers, surge protection and UPS MBP for greater system reliability

Outside Temp/Humid Expansion Kit

Enhanced System Performance
Ruggedized system operation to handle harsher environments (indoor only)

Extended Battery Back-Up

Greater Up-Time
Increase battery ban for up to 4 hours of system back-up time at rated load.

Piping Extension (Split Cooling)

Greater Application Flexibility
Longer piping length provides more options for selection mounting location and room requirements.

WHY WORK WITH US?

High performance products at the greatest value

Customized solutions to meet your application requirements

Consulting services to develop new products for your business

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