



PRECISION  
COOLING



INTELLIGENT  
POWER

INTEGRATED  
DCIM

SERVER  
RACK



# MICRO DATA CENTER RACKS

INTELLIGENT RACK, POWER & COOLING SOLUTIONS

PRODUCT BROCHURE

# Micro Data Center Racks

## PRODUCT FEATURES



### Micro Data Center Rack

Intelligent Rack Solutions with built-in Power, Cooling, Security and DCIM

### All-In-One Solution

Ideal for Storing and Managing Edge-Servers in On-Premise or Remote Applications

## System Features



### Beautiful Appearance

Attractive steel rack construction with tempered glass and sleek HMI for office-friendly installation.



### Security

Access control handle with 3-in-1 password, fingerprint and RFID protection and mechanical locking options



### Easy Installation

Minimal site preparation required for installing and commissioning the system with easy replacement of cooling unit.



### Precision Cooling

User-adjustable set-point with efficient cold-aisle isolation for maximum equipment performance.



### Environmental Sensors

Built-in rack sensors for monitoring temperature, humidity, door, water and smoke with automated alerts.



### Remote Management

Monitor power and cooling performance with automated alerts and compatible with LINE app's

# Micro Data Center Racks

## SYSTEM COMPONENTS



### Front View

Micro Data Center Rack with Split-Type Cooling, 3.7kW



### DCIM & Remote Monitoring

- 10.1" HMI & 1U Network Host
- Integrated Rack Sensors
- Email & LINE alerts



### Intelligent PDU

- Monitoring System
- Switched & Metered Outlets
- Accessible via DCIM



### Power Distribution Module

- C-Level Surge Protection
- Rackmount Design
- Connects UPS, Cooling & PDU



### Online UPS

- 6 & 10kVA Rackmount Units
- Double-Conversion
- External Battery Modules



### Split-Type Cooling Unit

- 3.7 & 7.5kW Cooling Capacity
- Outdoor Condenser
- Rackmount Blower



### Integrated Cooling Unit

- 3.7kW Cooling Capacity
- Internal Condenser
- Rackmount Unit



# Precision Cooling Unit

## SYSTEM OVERVIEW

### Integrated Cooling Unit

All-in-One Condenser and Blower for Simple and Flexible Installation Options



**All-in-One Cooling Unit**

Built-in Condenser and Rear-Exhaust

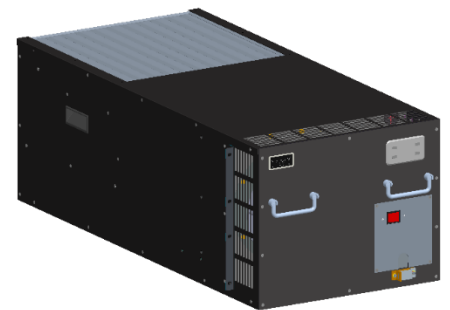


**Rear Hot-Air Exhaust**

Capable to Connect to the Building Return Duct System

#### Advantages:

- ✓ Easy to Install & Service
- ✓ Flexible to Select Location
- ✓ Reduced Water Leakage Risk

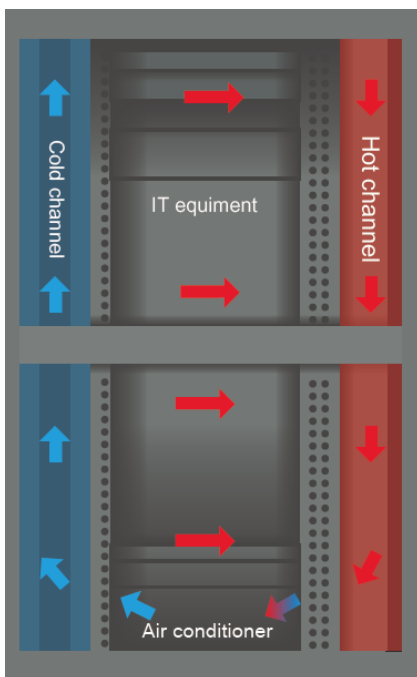


**Integrated Cooling Unit**

- Rackmount, 8U
- Constant Temp Set-Point

### Split-Type Cooling Unit

Internal Blower and External Condenser for High Capacity, Low Noise Operation



#### Front Cold Channel

Precision Cooling with Internal Blower

#### Rear Hot-Aisle

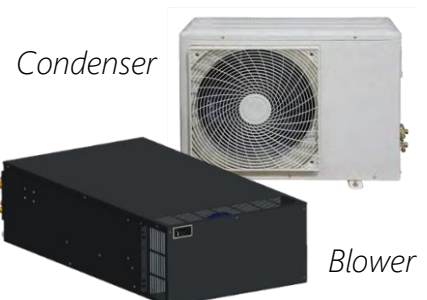
Fully Sealed Rear Channel for Contained Hot Air

#### Outdoor Exhaust

Efficient Operation To Remove the Heat from the Room

#### Advantages:

- ✓ High Cooling Capacity Options
- ✓ Lower Noise for Offices
- ✓ Reduced Heat Output



**Split-Type Cooling Unit**

- Rackmount Blower, 5 & 7U
- Constant Temp & Humid

# DCIM & Remote Monitoring

## SYSTEM OVERVIEW



Environmental Monitoring System, 1U

### On-Screen HMI

1. 10.1" Display with Password Protection
2. Access Real-Time System Information

### Remote Access

1. Web-Portal with Password Protection
2. Automated Alerts via email & LINE app



## Power Management



UPS & Battery



Power Distribution

- Monitor UPS & Battery
- Input & Output Voltage
- Intelligent PDU Monitoring

## Environmental Management



Precision A/C



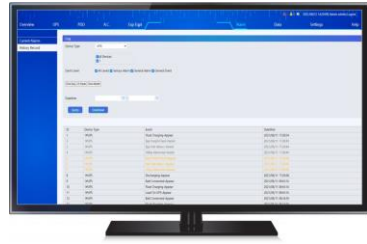
Rack Sensors

- System Temp, Humidity, Water Leakage, Smoke Detection
- Cooling Monitoring & Control
- Door Access Control

## Remote Monitoring & Alerts



Alerts



Web Access

- Measures System Performance (PUE)
- Remote Access & Alerts (Email & LINE)

# Micro Data Center Racks

## KEY APPLICATIONS & BENEFITS

### 5G Private Networks / Manufacturing / Logistics

Maintain Network Security and Minimize Latency in Industrial Environments.



#### Private 5G Networks & Cell Stations

- Automated Material Handling
- Stadiums & Public Facilities

#### Manufacturing & Logistics

- Engineering & Test Labs
- Manufacturing Cells



Rear View

#### Application Benefits

- ✓ Minimize Network Latency
- ✓ On-Site IT Device Security
- ✓ Robust Environmental Ratings
- ✓ Remote Management & Alerts
- ✓ Precision Power & Cooling
- ✓ Protects From Power-Line Noise
- ✓ Enhanced Security

### Corporate Offices / Education / Healthcare

Eliminate the IT Room by Storing IT Equipment in Open Office Environments



#### Corporate Offices

- Branch Offices & High-Rise Buildings
- Finance & Government

#### Education & Healthcare

- Smart Classrooms & Remote Learning
- Private Clinics & Telehealth



Front View

#### Application Benefits

- ✓ Eliminate the IT Room
- ✓ Minimize Network Latency
- ✓ Easy to Install and Manage
- ✓ Fits through Doorways & Elevators
- ✓ Remote Management & Alerts
- ✓ Precision Power & Cooling
- ✓ Enhanced Security

# Micro Data Center Racks

## SPECIFICATIONS

PARAMETER		INTEGRATED COOLING	SPLIT-TYPE COOLING	
		3.7KW	3.7KW	7.5KW
Racks	Dimensions (Server Rack)	2070mmH x 600mmW x 1200mmD		
	Dimensions (Network Rack)	2070mmH x 800mmW x 1400mmD		
	Load Rating	1500kg (Static)		
	Protection Level	IP5X (Front), IP2X (Rear)	IP5X (Front & Rear)	
	Front Door	Tempered Glass (Solid)		
	Rear Door	Solid Steel (Rear Exhaust)	Solid, Steel	
	Roof	Solid with Cable Entry Grommets		
	Side Panels	Solid, Locking		
	Total Available IT Space	25 RMU	28 RMU	26 RMU
	Over-Temp Operation	Automatic Door Release		
Power Distribution	Power Distribution Module	UPS Input, Maintenance Bypass, UPS Output, Cooling Input, PDU Breakers, Lighting Protection		
	Input Power	220VAC, 1P, 60Hz		
	Power Distribution Unit	2 x Basic (0U), 1P 32A, 13xC13, 3xC19 (Customized Outlets Available) Intelligent PDU Available (Metered Outlet & Managed)		
UPS	Capacity	6kVA (PF=1.0), Online, Double-Conversion	10kVA (PF=1.0), Online, Double-Conversion	
	Back-Up	10 Minutes @ 3kW Load	5 Minutes @ 7kW Load	
Cooling	Cooling Capacity	3.7kW	3.7kW	7.5kW
	Input Power	220VAC, 50 or 60Hz		
	Cooling Types	Integrated Precision A/C, DX-Type	Split-Type Precision A/C, DX-Type	
	Cooling Unit Dimensions	8RMU	5RMU	7RMU
	Cooling Unit Mounting	Rackmount (Bottom) for Easy Water Drainage		
	Outdoor Unit	N/A	Yes	
	Cooling Agent	R410A (Environmentally Friendly)		
DCIM	HMI	10.1" LCD Touch Panel		
	Monitoring Hose	Network Controller, 1RMU		
	Web-Based Access	Linux		
	Monitoring Functions	Temp & Humid, UPS, Cooling, Smoke, Water, Door Webcam (Optional), Infrared Detection (Optional)		
	Alert Communications	LINE App (Optional), Email		
Environment	Operating Temp	0°C ~ 45°C		
	Rel. Humidity	10 – 95%, Non-Condensing		

Notes: Specifications shown are subject to change without any further notification.





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Power



Protect



Cool



Connect

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