

Product Introduction

Traditional miniaturized data centers have problems such as high maintenance costs, long construction time, and inability to timely understand the operating status. Prose created and innovated smart micro-data center to meet the requirements.

To meet the future deployment requirements of edge computing applications, the Smart Microdata Center adopts a modular development concept, The advantage of low cost, suitable for customers to install quickly and put into use in time.

The Smart Microdata Center contains cabinets, power distribution systems, refrigeration systems, cabling systems, while meeting the need for continuous power, to prevent data loss, MDC can be accessed through TCP/IP, Cloud App, etc., so that customers can know the running status of the product in real time. Temperature and humidity monitoring system and air-cooling system provide suitable working environment for customers' products. It also includes face recognition, fingerprint recognition and other authentication to provide data security protection.

Main Feature

- Lower Investment by 25%
- Fast Installation Only 2H
- FC AC Energy Saving 30%
- PUE Less Than 1.26
- System Emergency Response Protection
- Biometrics Authentication
- Cascading Available for Rack
- Saving Room Space 50%
- Quiet Operation Less-than 55dB
- DCIM 24H Cloud O&M



System specification

W600mm* D1200mm * H2050mm, 2 pcs of racks can be put in cascade configuration.

Item	Standard Cabinet
Height Unit (customizable)	42U
Cabinet Size (mm)	600 (W) x 1200(D) x 2050(H)*2pcs
Weight	About 180kg
Static Load	Up to 2200kg
Color	Black or Gray
Structure Composition	Welding framework, cabinet seal design as a whole
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
IP Level	IP5X
Display Panel	10.1" Touch Panel LCD
Display Languages	English / Chinese
LED Lighting	BI-Color (Red & Blue)
Front Door	Toughened glass door with Mechanical lock or fingerprint lock (Support face detector)
Rear Door	Sheet metal door
Safety Standard	RoHS

Power Distribution Box



No.	Parameter	Value
1	Input Rated Voltage(V)	220VAC
2	Input Rated Current(A)	80A
3	Input Switch	80A /1P
4	Output Switch	2*63A/1P+C63A/2P+C32A/2P+D20A/1P+32A/1P*2+16A/1P*3
5	Lightning Protection Level	Class C lightning protection
6	Dimensions(mm)	W*D*H, 483*500*3U
7	Color	Black, off-white or according to customer's specification
8	Ways To Enter and Exit	Top-in and top-out or according to customer's designation
9	Installation	19" Rack mounted
10	Cooling	Natural cooling

Precision Air Conditioning



Rack-Type Air Condition Technical Specification		
Type		6.5KW
Cooling Capacity	Cooling capacity	6.7
	Sensible heat ratio(SHR)	98%
Machine air volume (m³/h)		1500
Energy efficiency ratio (EER)		3.5
Compressor	Qty (PC)	2
	Type	Enclosed inverter compressor
Fans type		Hypokinesis EC centrifugal fan
Expansion valve type		Electronic expansion valve
Air supply mode		Upper, left, right and three side air supply
Evaporator		Copper pipe+ Hydrophilic fin
Freezing medium		R410A
Unit standard heating (W)		1000
Power parameter	Input	220V/50Hz
	Electric power supplying parameters FLA(A)	16.6(30)
	Recommended air switch model	32A
Pipe type	Self-draining pipe (mm)	Inner p16/Outer p21
	Strong-Draining pipe (mm)	Inner p5/Outer p7
	Refrigerant air pipe (mm)	15.88
	Refrigerant fluid pipe (mm)	9.52
Indoor machine size (mm)		440*760*352
Indoor machine weight (kg)		35
Outdoor machine size (mm)		810*580*280
Outdoor machine weight (kg)		35
Connect the inner and outer machines with copper pipes and cables		5m

UPS (Uninterrupted Power Supply)



Mode		UPS-RM20101-11
Power capacity		10kVA/10000W
Input	Voltage range	110-288VAC(220/230/240VAC)
	Frequency	40-70Hz
	Power factor	≥0.99
Output	Voltage range	220VAC±1%
	Frequency	50/60Hz
	Wave form	Sinusoidal wave
	Power factor	1
	Overload capacity (Inverter mode)	110% : Bypass after 10 minutes; 130% : Bypass is cut after 1 minute; 150% : Bypass after 30 seconds, shut down after 1 minute
	Peak value ratio	3: 1
Efficiency		Main road mode 95%; ECO Mode 98%
Battery	Mode	Depends on the external battery
	Qty	
	Maximum charging current	5A
	Dc voltage	192-288VDC
Communication mode		RS 232、SNMP
Option		Removable dry contact card, maintenance switch, parallel card, battery pack, USB, SNMP, RS 485 interface
Bypass		Standard configuration
Environment	Temperature	0-40℃
	Humidness	0-95%
Size		440*550*86
W*D*H(mm)		
Special specification		Depth of the server cabinet ≥1 m
Weight (kg)		18

Dynamic Environment Monitoring System



Item	Technical Specification
CPU	ARM Cortex A9 Quad-core, Max Frequency 1.2GHz
Operating System	Android 5.1
Memory	DDR3L 2GB
Flash Rom	8GB eMMC Flash
Standard Serial Port	2 Ports RS232
Standard Serial Port	2 Ports RS485
Debug Port	1 Port Micro USB
Digital Input Port	2 Ports DI
Digital Output Port	2 Ports DO(for relay control)
USB Port	3 Ports (1 Port USB Host, 2 Ports USB Device)
Debug Port	1 Port Micro USB
Output Supply	6 Ports 12V/1A
Wireless	Reserved for 3G, 4G and Wi-Fi module expansion slot
Ethernet	1 Ports RJ45 10M/100M/1000M
Operating Voltage	12V DC
Max Power	35W
Size	266 mm× 182 mm× 48.5 mm
ESD Level	Contact: 6KV; Air: 8KV
MTBF	≥100000H
Operating Temperature	-20~60°C
Operating Humidity	10%~90%RH
Function	Command to unlock and open the front door and rear door, 4G module, camera

Battery Pack



Battery Pack	
UPS capacity	10KVA
Backup time	15min
Battery capacity	DC12V38AH
Battery qty	8PCS/pack
UPS to battery voltage	192VDC
Battery pack depth x width x height (mm)	483*780*5U
Battery pack qty	2pcs
Battery switch	63A/2P
Machine (Kg)	120kg/pack

PDU (Power Distribution Unit)



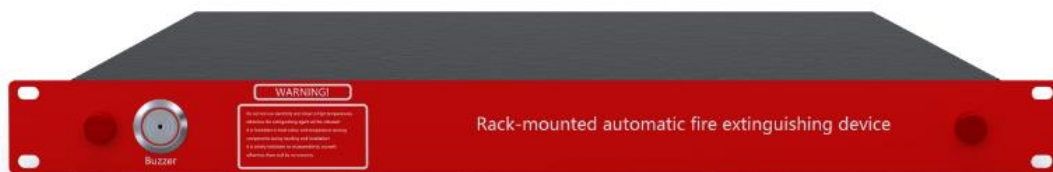
Item	Specification
Rated current	32A
Rated voltage	220VAC 50/60Hz
Output ports	20*C13+4*C19
Max power	5KW
Outline size	1217(Adjustable length) x 52 x 44 mm
Installation method	Horizontal/Vertical installation
Safety certification	UL/CE/CCC
Function	Lightning protection, intelligent monitoring, and general circuit breaker are optional

Integrative Door Lock



Type of Device	Specification
Rated operating voltage	DC12V
Working current	Static standby: <250mA Dynamic Electronically Controlled Unlocking: <500mA
Communication mode	RS485, 9600bit/s
Service life	Above 500,000 times
Color	Black
Operating temperature/humidity	-20℃ ~50℃ / 20 ~ 90%
Storage temperature/humidity	-30℃ ~60℃ / 20 ~ 90%
IP rate	IP65
3 unlock modes	Remote unlocking by monitoring host control software Authorized card writes the card number and swipes card to unlock Mechanicals unlock
Access control authorization	500 to 5000 fingerprints
Authorized entrance number	Up to 5000
Software authorization	Authorized by system software through network Communication
Event records	Up to 1120 history records
Function	Mechanical unlocking, password of the IC card, fingerprint and so on, can be paired with
Communication interface	RS485 networking real-time monitoring, door status, handle status, real-time clock function

Automatic Fire Suppression System



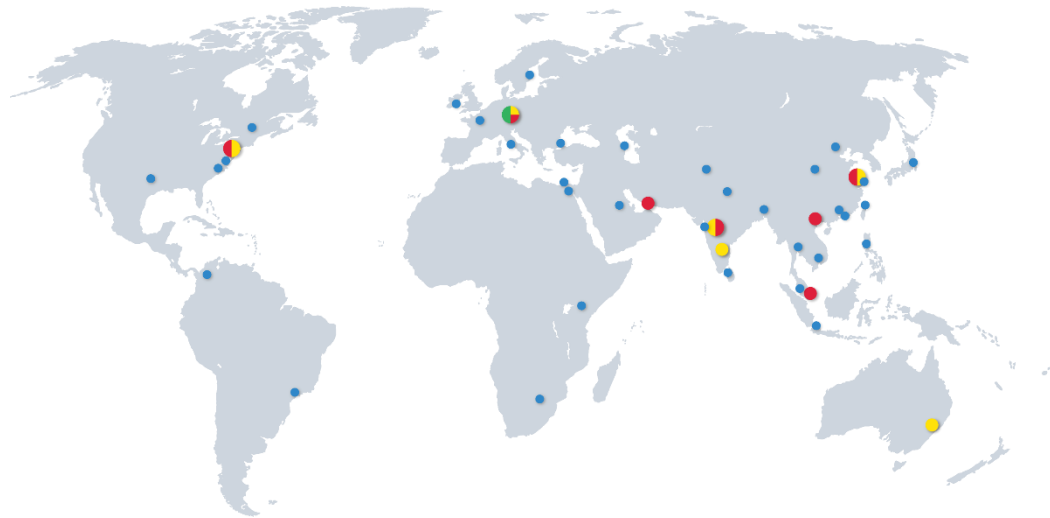
Type Of Device	Automatic fire suppression system
Model number	AFFS-NONPRESS-1U
Control the number of cabinets	1set
Size	483(W)*580(D)*1U(H)mm
Fire extinguishing agent	Novec1230
Storage pressure(20℃)	0MPa
Injection time	≤10S
Action temperature of fire detecting tube	68 °C & smoke
Effective protection volume	3.45m³

Product Configuration

PN	Description	Picture
MDC-5231-1121-E141-1251	Dual cabinet KHIPU MDC: 2 set Close Cabinet 42U: 600mm x 1200mm x 2050mm 1 set UPS capacity is 10KVA 1-phase 15-minute Battery Pack 1 set Panel Distribution Box 1 Phase 1 set Precision Air Cooling 6.5 KW 2 pcs Smoke sensor 2 pcs Temperature & Humidity Sensor 2 pcs PDU 24 outlet PDU, 32A, 20* C13+4*C19 2 pcs Keypad, Fingerprint lock 2 set Automatic fire suppression system 1 set Master Environmental Monitoring System bundling with Touch Panel LCD for Dashboard, camera	

Note: The above product information is the default information and can be customized according to customers.

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