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NetLink iMDC Micro Data Center
iMDC01

XCell iMDC Micro DC has been developed to meet all edge computing needs; It is a modular plug and play solution that does not require a new system room investment. Also Micro DC; It consists of all basic components such as UPS, PDU, EMS and cooling system. Micro DC is a solution that provides efficiency and comfort by allowing users to easily monitor and manage active components on a single DCIM (Data Center Infrastructure Management) called Xcell Remote Management Software

The IT cabinet can be flexibly extended on both sides of it. A single module supports a maximum of 3 cabinets, at most 10.5 kW IT load, and up to 3.5 kW/R power density. Cold and hot aisle containment to saving for higher PUE and reduced noise level allow users to deploy the solution withing existing office premises without having specialized room facility.

Moreover, iMDC Micro DC is protected against any kind of undesired external hazards with its state-of-the-art environmental monitoring, NOVAC based fire detection and extinguishing systems.

TECH-LIKE APPEARANCE
Simple high-transparency cabinet door design with LED ambient light

EFFICIENT&TIME-SAVING
All-round monitoring, quick alarm, no need for engineering construction

ENERGY SAVING&ENVIRONMENTAL PROTECTION
Closed channel design, PUE≤1.3

TOUCH SCREEN
Real-time viewing of equipment operating parameters, intelligent and quick operation

SMART ELECTRONIC LOCK
Remote, credit card, fingerprint, password and other control methods

FAST OPERATION&MAINTENANCE
Remotely view monitoring data in real time and find problems

CUSTOMIZED UPON REQUEST
Can be customized according to needs to meet equipment needs

SMART LIGHTING MANAGEMENT
According to the different internal temperature, the warning light will change colo

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Audible and visual alarm

Temperature and humidity sensor

smoke feel

LCD display screen

Access

Status indicator light

Water leak sensor

Video surveillance

Monitor the host

Intelligent power distribution unit

PDU (optional)

Power supply

Airflow management component

Refrigeration and emergency systems

Fire Suppression

All-in-One Design

The factory can integrate prefabrication, pre-assembly and pre-commissioning, and the construction can be completed quickly on site.

Overall Design Delivery

Overall design, overall delivery, avoiding system design problems.

Self-Contained Complete System

A single cabinet is a complete system of its own, which can be easily and quickly expanded to place multiple cabinets side by side.

Mood Light Tips

Different colors of ambient lighting reflect the internal temperature and humidity environment or safety status.
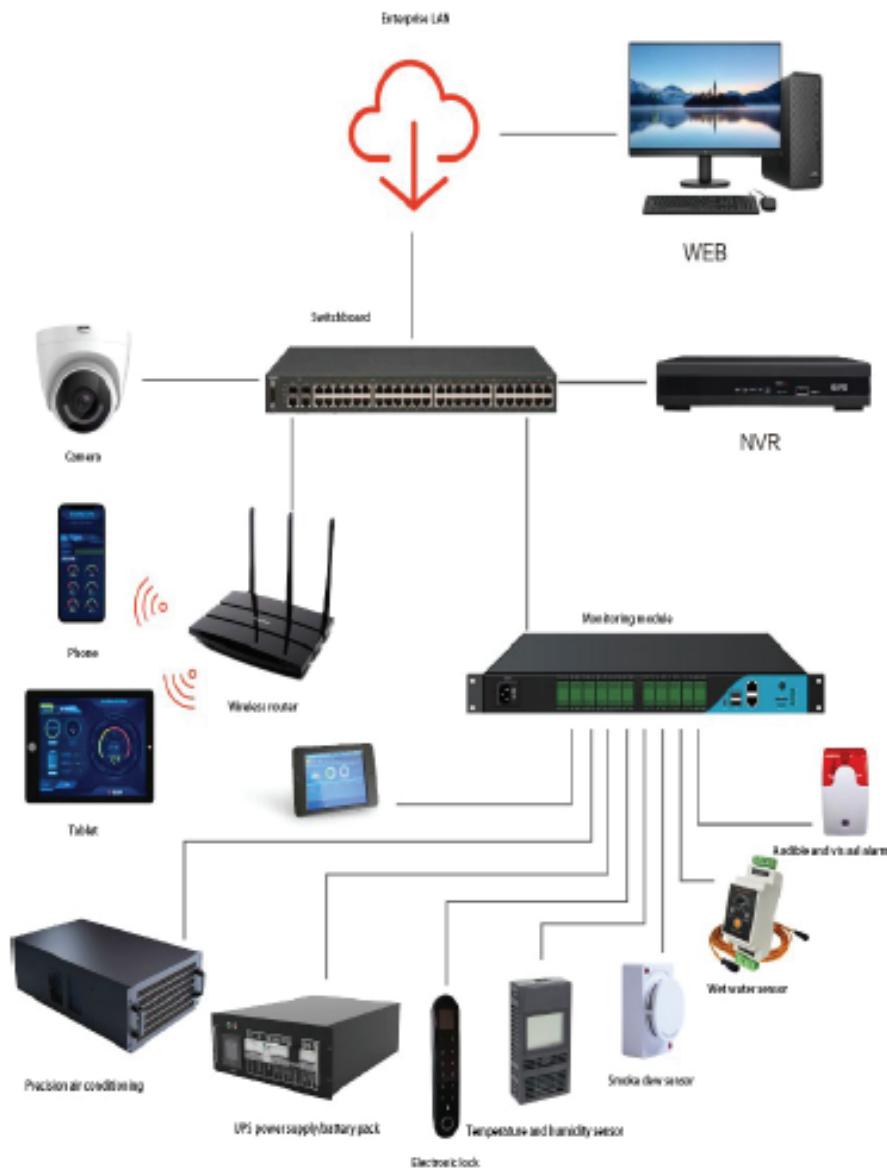
Hot and Cold Aisle

The hot and cold aisle is fully enclosed to improve cooling efficiency.

Emergency Heat Dissipation

Front and rear with emergency fan heat fans to delay channel overheating.
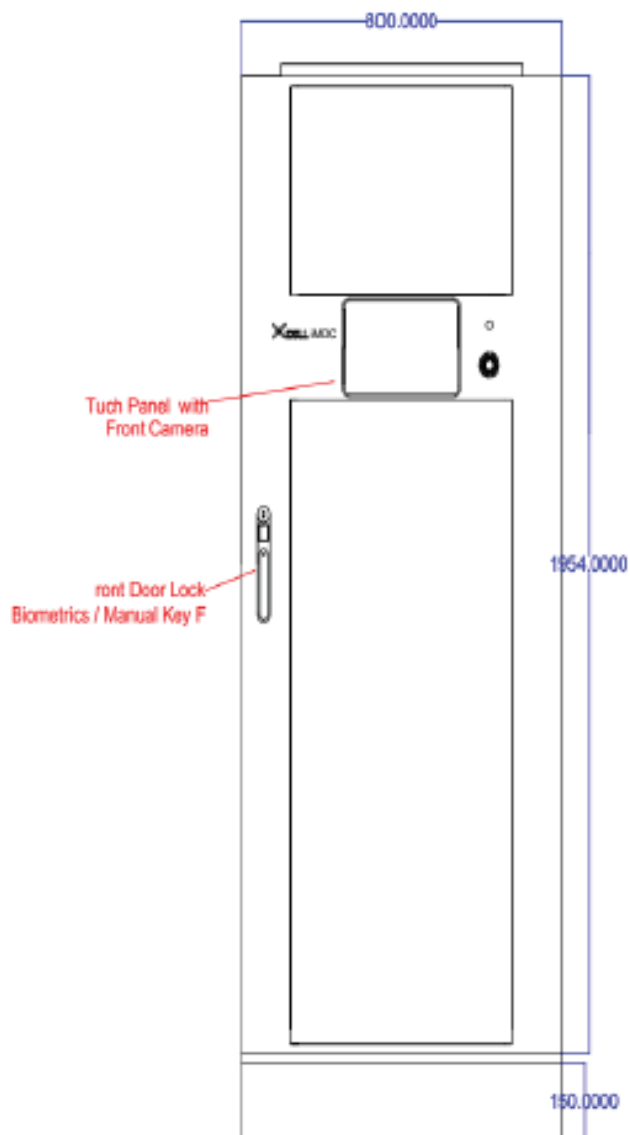
Built in Fire Suppression

All in one iMDC solution is fully integrated with Novac based fire suppression system and monitor through built in DCiM flat form

Enterprise LAN

WEB

Switchboard

Camera

NVR

Phone

Monitoring module

Wireless router

Tablet

Audible and visual alarm

Wet water sensor

Precision air conditioning

Smoke dew sensor

UPS power supply/battery pack

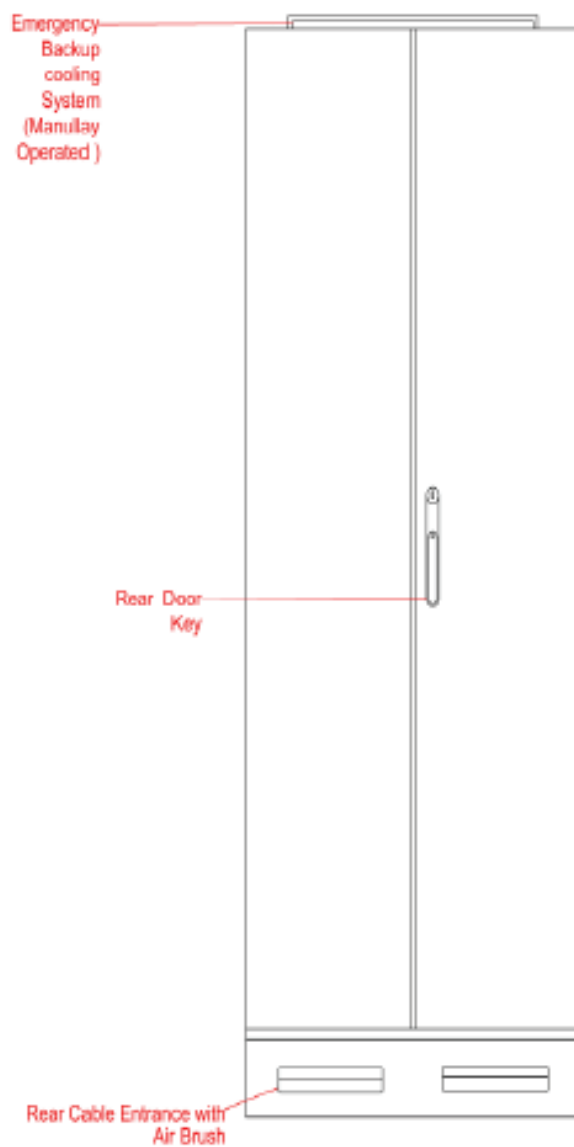Temperature and humidity sensor

Electronic lock

XCell iMDC Micro DC is configurable with a control cabinet where UPS and batteries, energy and UPS distribution panels, and environmental management system components can be located. Integrated cooling Power distribution panels and UPSs are designed for 2N power distribution redundancy. ATS (automatic transfer switch) in energy distribution panels allows red dant energy inlet for uninterrupted energy supply. System can be configurated to respond to lon   -term power cuts with additional 12V batteries.

Moreover, solution will be consisted of state of art DCiM software and hardware for monitoring and control all the connec ed systems of the micro data center including Light, Access control, fire suppression and all the surveillance camera for si   gle dash board monitoring with onboard 10 inch touch screen panel.

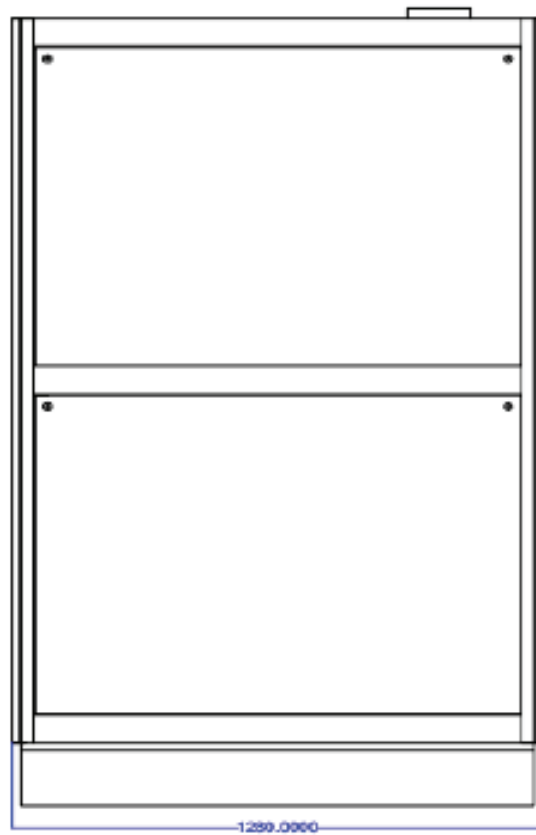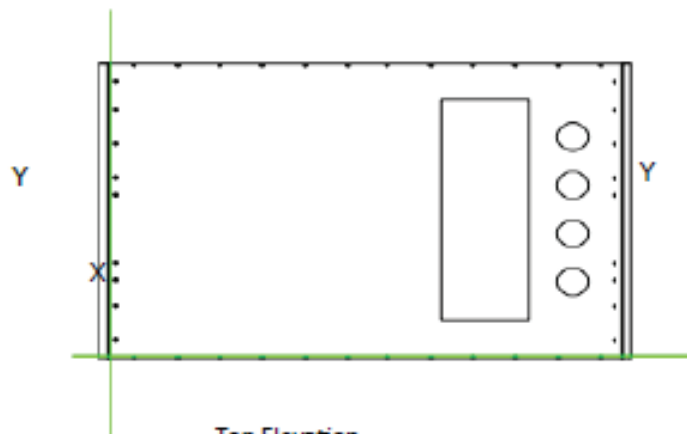## DCiM Integrated with All connected systems

800.0000

Tuch Panel with
Front Camera

ront Door Lock-
Biometrics / Manual Key F

1964.0000

150.0000

Front Elevation

Emergency
Backup
cooling
System
(Manullay
Operated)

Rear Door
Key

Rear Cable Entrance with
Air Brush

Rear Elevation

Mechanical Drawing

Side Elevation

X

Top Elevation

Mechanical Drawing

RPDU

Vertical Cable Ladder

Groundling Bar

Cross Section Y Y

Fire Suppresion

Input Power module with Power Quality Analyzer

Usable Space

UPS Battery Expanstion or Side Mount Cooling

Cooling Solution 3.5KW
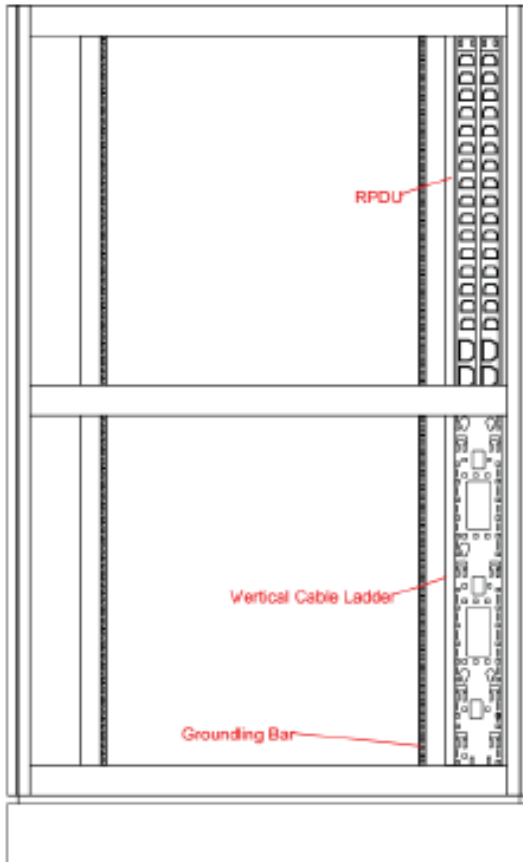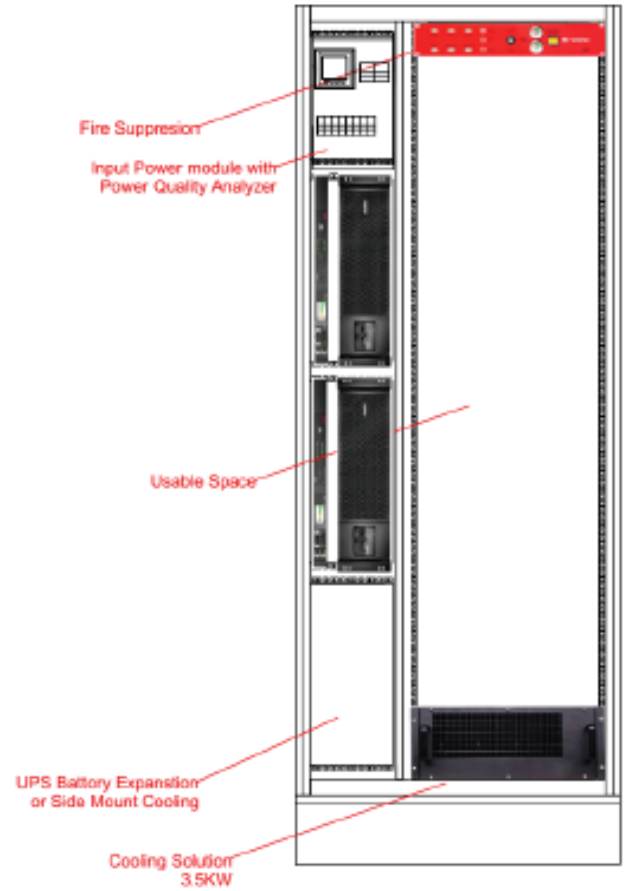
Cross Section X X

Mechanical Drawing

Air Floor Control Cold and Hot Aisle

Xcell iMDC Micro Data Center	
Model	iMDC01
UPS & Air Conditioner Redundancy	Optional
Backup Cooling	FANs Manually On
Enclosure type	Carbon Steel thermal insulated in cold Aisle Powder coated finish white or black
Number of racks	1
Height - H	42U
Depth of the System	1300mm
Width of the system	800mm
Plinth size W x D x H	800 x 1350 x150mm
Cold aisle (front)	Dual Glass thermal Barrier
Hot aisle (rear)	Insulated Metal door
Main Power Distribution Module	include with Modbus communication
Air conditioner power DX type	3.5KW per unite
Humidity Control	Optional
Power input	230V single Phase AC, 50 -60Hz
UPS	6 kVA (4U) per unite 230V in and 230V out, 6KW (unity power factor)
UPS - batteries type	VRLA
Backup time	Configurable, default 15 Min
PDU	Default Non Monitor and Optional Modbus communication
PDU Outlet type	2 Nos of 16 x C13 + 4 x C19, 16 Amp or 20Amp
Front Door Lock	default Manual lock Biometric Door Lock optional
Rear Door Lock	Manual type
Fire Suppression	Rack mount 2U, NOVAC123 based with Modbus and Ethernet Communication
Monitoring and DCiM	Temperature and humidity x 2
	Water Leak
	Fire and smoke
	front and rear CCTV
	built in front door open snap shot
	Light warning
	Auto front Light
	UPS monitor and control
	Cooling Monitor and control (Modbus)
	front Biometric Door Lock (optional)
	Door Status
	RPDU Monitring (optinal)
	10 inch front tuch Panel
	SMS Alert
	Email Alert
	SNMP
	web Access

Intelligent PDU

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

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.

Electronic Door Locking System

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

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.

Optional Modules

Micro DC can be configured with server/network/energy cabinets, i -Loop precision air conditioners, environmental monitoring system, fire detection and extinguishing system (NOVEC1230), redundant uninterruptible er supply, power distribution panel and PDUs (power distribution unit). Xcell Micro DC offers N, N+1 and 2N dundancy for cooling and energy systems.