

The NORDEN logo is located in the top right corner of the image. It consists of a white right-pointing triangle followed by the word "NORDEN" in a bold, white, sans-serif font, with a registered trademark symbol (®) to its upper right.The NORDEN logo is located on the left side of the server cabinet. It features a white right-pointing triangle followed by the word "NORDEN" in a white, sans-serif font, with a registered trademark symbol (®) to its upper right.

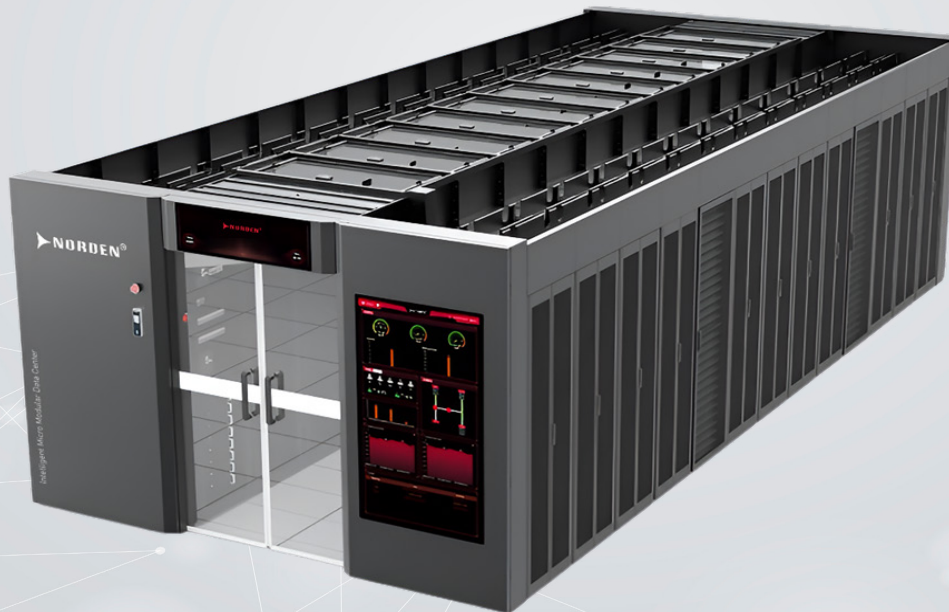
Intelligent Micro Modular Data Center

The NORDEN logo is located on the top edge of the server cabinet's door. It features a red right-pointing triangle followed by the word "NORDEN" in a red, sans-serif font, with a registered trademark symbol (®) to its upper right.

SMART AISLE CONTAINMENT SOLUTION

www.nordencommunication.com

SMART AISLE CONTAINMENT SOLUTION



INTRODUCTION

Norden Smart Aisle containment System are designed to improve the efficiency of data centres by isolating hot and cold airflow, ensuring optimal cooling and energy management. These cabinets support the organization and management of IT equipment while enhancing system performance and reliability. Norden Aisle Containment Cabinet features a modular, prefabricated design that combines power supply, UPS, precision cooling, cabinets, closed channels, and dynamic environmental monitoring systems into a single integrated solution. It is equipped with numerous sampling sensors for real-time, unified monitoring and management, enabling automated control and intelligent operation and maintenance. This enhances the reliability, availability, and maintainability of the data centre.

FEATURES

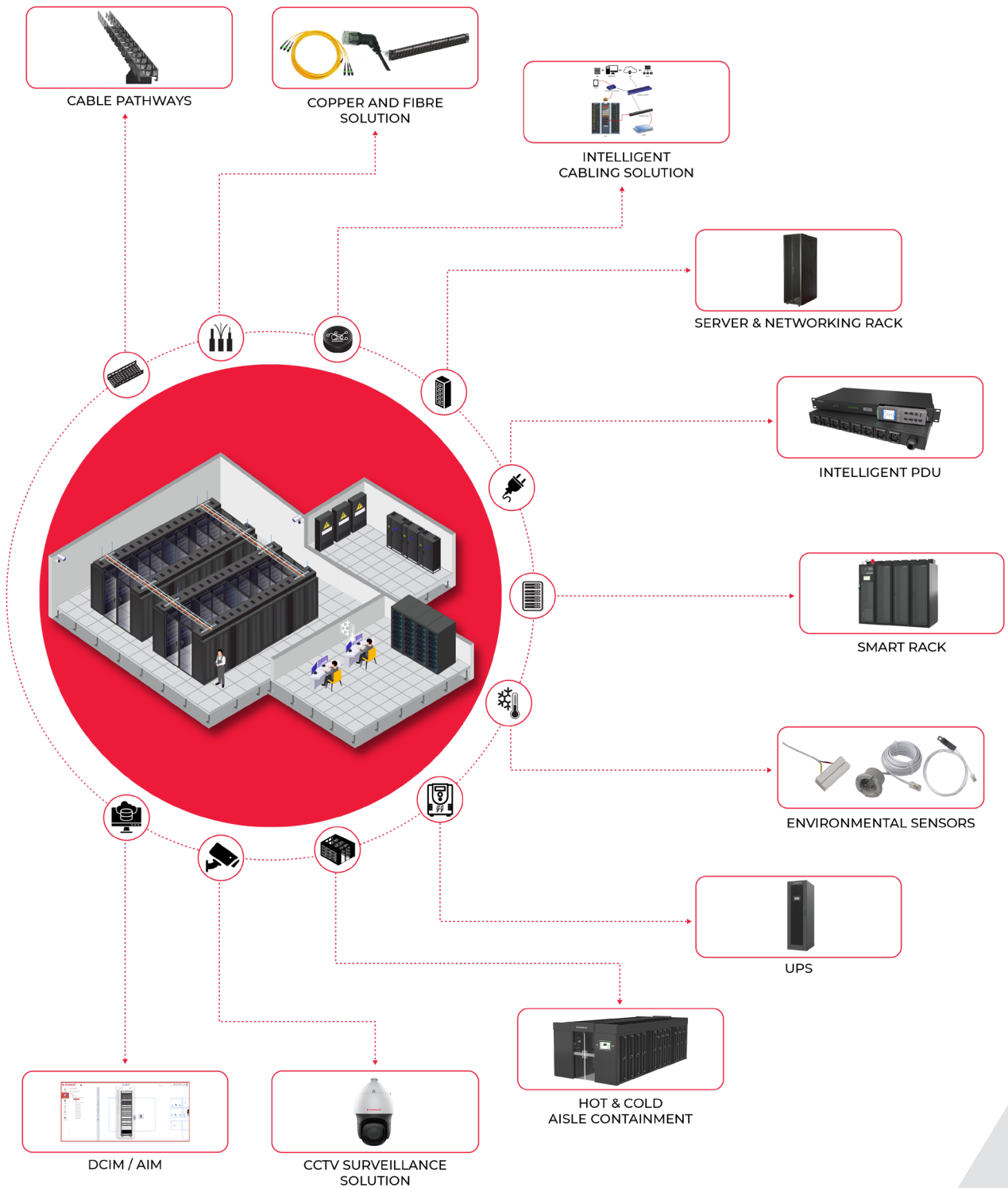
Prefabricated installation with redundant system components to enhance overall reliability.

Supports SMS, phone, email, sound, and light alarms with user-friendly interfaces such as remote apps, local LCD screens, and web access.

Features high-efficiency modular UPS, integrated power distribution, in-row air conditioning, and closed channels to minimize energy consumption.

Standardized modular design for quick, hot-swappable installation and easy maintenance.

SMART AISLE CONTAINMENT SOLUTION



Where
INNOVATION
Meets
EFFICIENCY

Smart Aisle Containment for
Optimal Thermal Performance



CONTAINMENT SPECIFICATIONS

System	
Dimensions (W x D x H) mm	3600 x L x 2600
IT Rate Power/Cabinet	3 ~ 12kW
Door	Automatic Sliding Doors / Manual Sliding Doors
Lighting	LED Lighting + RGB
Door Security	Fingerprint + IC Card + Face ID
Ambient Temperature	0°C to +45°C
Ambient Humidity	10-95%
Protection Level	IP 20
Installation	Installing on Concrete Floor or Raised Floor
GSM	Up on Request
IR	Up on Request

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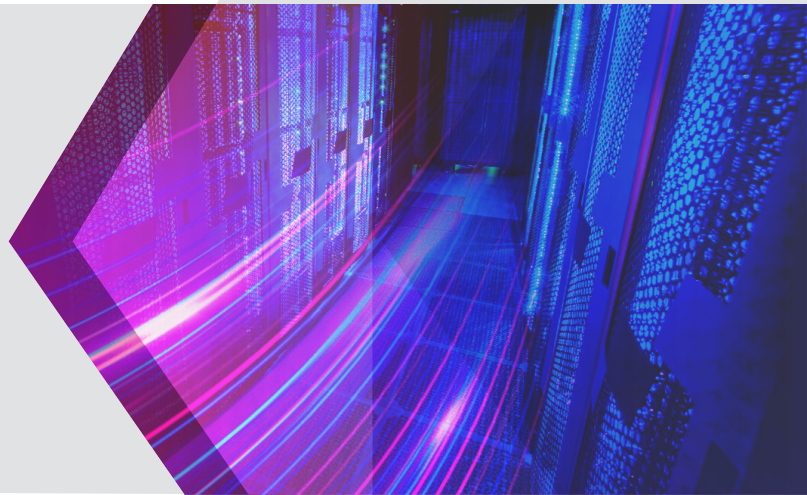
CABINET



System	
Dimensions (W x D x H) mm	600/800 x 1200/1100 x 2000/2200
Space Available	Standard: 42U, Customization is available up on request
Cables Entry	Top and Bottom
Door Perforation	80%
Default door type	Front single mesh door. Double-leaf perforated rear doors are provided to maintain effective heat containment within the cabinet row while allowing controlled airflow management.
Default Cabinet Accessories	1 L-rail 1 Vertical cable tie 10 IU cover panel 1 Grounding copper bar 2 sets of PDU lugs 50 sets of screws
Color	RAL 9005

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POWER DISTRIBUTION CABINET (MDC)



The Power Distribution Cabinet (Main Distribution Frame) is a key component of the aisle containment system, serving as the interface between the main power supply and the equipment installed within the row. Integrated into the containment structure and connected with the UPS system, it ensures reliable high-density power distribution, effective load balancing, and intelligent monitoring of power consumption.

PDM System	
Input Way	Single Input MCCB / Dual Input ATS
Input Rate	380/400/415 VAC ,50/60 Hz
Total Input Current	63 ~ 400 Amp
Surge Protection Device	Class B/C (Optional)
Distribution Type	Integrated UPS Power Distribution Cabinet

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PRECISION AIR CONDITIONING (PAC)



The Norden Cooling Solution delivers intelligent, energy-efficient temperature control tailored for data center environments. It integrates In-Row Precision Cooling systems for containment applications with the EcoAir and Max Air series for room-level and downflow deployments. Designed for scalability and high efficiency through variable frequency drive technology, the solution ensures reliable performance, precise temperature and humidity control, and continuous protection of critical equipment.

Scan/Click the QR code below to download the datasheet.



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FIXED SKYLIGHTS



The fixed roof panel is constructed with a steel frame and an integrated viewing window. It is a non-removable design and is intended for aisle containment cable management applications.

The panel is designed to maintain overall system integrity. The packaged skylight side panels are assembled using cross pan head screws to ensure secure and stable installation.

ROTATABLE SKYLIGHTS



The Rotatable Skylight Panel is designed for aisle containment roof systems, providing enhanced visibility, easy access, and improved airflow management. The panel features a pivot or hinged mechanism that allows it to be rotated or opened for maintenance, cable routing, or emergency access.

SMART AISLE CONTAINMENT SOLUTION

POWER DISTRIBUTION UNIT (PDU)



**Product picture for reference only*

Norden Power Distribution Units are designed to improve uptime and energy efficiency while reducing operating costs. Norden’s unique hot-swap design allows quick, easy replacement of PDU modules without affecting the power supply to equipment and is also upgradable

PDU Ordering information	
Part No	Description
NI-MMC-PDUM1S324A20B0400X	Zero-U Metered & Managed PDU-Total Input Monitoring & Control, Single Phase 32A 230V, 20xC13 +0 4xC19 Outlets
NI-MMC-PDUM2S324A20B0400X	Zero-U Metered & Managed PDU-Individual Outlet Monitoring & Control, Single Phase 32A 230V, 20xC13+04xC19 Outlets
NI-MMC-PDUM1P324A18B0600X	Zero-U Metered & Managed PDU-Total Input Monitoring & Control, 3-Phase 32A 230V, 18xC13+06xC19 Outlets
NI-MMC-PDUM2P324A18B0600X	Zero-U Metered & Managed PDU-Individual Outlet Monitoring & Control, 3-Phase 32A 230V, 18xC13+06xC19 Outlets

Scan/Click the QR code below to download the Enhanced Version of PDU.



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UNINTERRUPTED POWER SUPPLY (UPS)



The 10–2000 kVA Modular UPS delivers intelligent, high-availability power protection for mission-critical applications. Featuring hot-swappable power modules in 10, 20, 25, 30, 50, 62.5, and 100 kW ratings, its advanced modular architecture enables seamless scalability, N+1 redundancy, high efficiency, and uninterrupted performance—making it ideal for data centers, telecom, industrial, healthcare, and commercial facilities.

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SMART AISLE CONTAINMENT SOLUTION

SENSORS



The Aisle Containment System is equipped with advanced environmental and safety sensors to ensure optimal thermal performance, operational reliability, and infrastructure protection. These sensors continuously monitor critical parameters within the containment area and support integration with DCIM, BMS, and remote monitoring systems.

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AISLE CONTAINMENT LED LIGHTING



TRI-COLOR LED STATUS LIGHTING SYSTEM

The Aisle Containment System is equipped with an integrated Tri-Color LED Status Lighting System designed to enhance visibility and provide real-time operational status indication within the containment area. The system operates in three distinct modes: white light for normal operation, ensuring clear and uniform illumination inside the aisle; blue light for standby or standard operating conditions; and red light for alarm status, indicating critical events such as temperature threshold breaches, smoke detection, or system faults. This intelligent lighting solution improves safety, operational awareness, and overall visibility within the containment environment.

SMART AISLE CONTAINMENT SOLUTION

INTEGRATED MONITORING DISPLAY



The monitoring module is integrated into a local LCD, referred to as the intelligent monitoring screen, and is equipped with an interface-expandable control module to support additional equipment and control functions. The system supports both local and remote management, providing comprehensive capabilities such as system status monitoring, alarm management, and system configuration and operation. In addition, it features a visual HMI (Human-Machine Interface), which enables users to easily monitor and maintain the internal equipment of the system, enhancing operational efficiency and simplifying maintenance tasks

Item	Specification
Power Input	<ul style="list-style-type: none"> Supports two DC power supplies Input Voltage : 12VDC Input rated current : 1A
System MEMORY	512MB
Micro SD card	Up to 32GB of storage space is available for storing historical records and other data.
FE Expansion	Support 1 LAN interface, 10/100M communication rate
COMM Port	<ul style="list-style-type: none"> Supports a 4-way RS485 interface, with 2 ports per channel for easy wiring. The interface uses RJ45 connectors and the default communication speed is 9600 bps RJ45 interface also provides 12V DC power input
USB	Supports one-way USB 2.0 device access
SMS	Support SMS device access
Work Indication LED	Normal Status: Green Alarm Status: Yellow when alarm and Red when fault

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SURVEILLANCE



ENC-HTQ5F-00R-37

The ENC-HTQ5F-00R-37 is a compact 2MP thermal cube camera built for precise temperature monitoring and fire detection. It combines a 256×192 thermal sensor with a visible 2MP camera for dual imaging and reliable performance. The device features real-time temperature threshold alarms for instant alerts on abnormal heat changes and comes with magnetic mounting, making it especially suitable for quick installation in power distribution cabinets. With smart detection features, PoE support, and IP67 protection, it delivers dependable operation in demanding industrial environments.

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CABLE RACEWAY



NORDEN's Cable raceways are enclosed pathways used to route, support, and protect electrical, optical cables and wires in buildings, data centre and industrial installations. They help organize wiring systems, prevent mechanical damage, and improve safety by keeping cables properly contained. Cable raceways can be made of metal or non-metallic materials and include systems such as cable trays, conduits, trunking, and ducts, allowing easy installation, maintenance, and future cable additions.

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ORDERING INFORMATION

AISLE CONTAINMENT STANDARD BoM CONFIGURATION			
PARAMETERS	6-Cabinet Cold Aisle Containment System	8-Cabinet Cold Aisle Containment System	10-Cabinet Cold Aisle Containment System
CABINET			
No of cabinet	6	8	10
Cabinet dimension	42U 2000(H) X 600 W X 1200 D	42U 2000(H) X 800 WX 1200D	42U 2000(H) X 600 W X 1200 D
IT Load/Cabinet	5kw	10kW	10kW
Total IT load	30kw	80kW	100kW
POWER CABINET			
Power cabinet capacity	250A	250A	400A
Dimension	42U 2000(H) X 600 W X 1200 D	42U 2000(H) X 800 W X 1200 D	42U 2000(H) X 600 W X 1200 D
Integrated with aisle containment	Yes	Yes	Yes
PAC			
Type of pac	In row	In row	In row
No of PAC	2	4	5
Redundancy	N	N	N+1
Capacity(kW)	25.6kW	25.6kW	30.6kW
Diamension	2000mm (H) X 300mm (W) X 1200mm	2000mm (H) X 300mm (W) X 1200mm (D)	2000mm (H) X 300mm (W) X 1400mm (D)
Refrigerant Type	R410A	R410A	R410A
OUT DOOR UNIT			
Type	Conventional	Conventional	Conventional
UPS			
Type	Rack mount	Modular	Modular
Capacity	40kVA	120kVA	120kVA
No of modules		6	6
Redundancy	N	N	N
BACK UP DEATAILS			
No of battery	40	50	50
Voltage	12v	12v	12v
Ah	65Ah	192Ah	192Ah
Back up time	15mins	15mins	15mins
Standarad BoM	Download BoM	Download BoM	Download BoM

ORDERING INFORMATION

AISLE CONTAINMENT STANDARD BoM CONFIGURATION			
PARAMETERS	12-Cabinet Cold Aisle Containment System	16-Cabinet Cold Aisle Containment System	24-Cabinet Cold Aisle Containment System
CABINET			
No of cabinet	12	16	24
Cabinet dimension	42U 2000(H) X 800 W X 1200 D	42U 2000(H) X 600 W X 1200 D	42U 2000(H) X 600 WX 1200 D
IT Load/Cabinet	5kw	7kW	7kW
Total IT load	60kW	112kW	170kW
POWER CABINET			
Power cabinet capacity	400A	400A	400A
Dimension	42U 2000(H) X 800 W X 1200 D	42U 2000(H) X 600 W X 1200 D	42U 2000(H) X 600 W X 1200 D
Integrated with aisle containment	Yes	No	No
PAC			
Type of pac	In row	In row	In row
No of PAC	5	4	8
Redundancy	N+1	N+1	N+N
Capacity(kW)	25.6kW	42.8kW	42.8kW
Diamension	2000mm (H) X 300mm(W) X1200mm (D)	2000mm (H) X 600 mm (W) X 1200 mm (D)	2000mm (H) X 600 mm (W) X 1200 mm (D)
Refrigerant Type	R410A	R410A	R410A
OUT DOOR UNIT			
Type	Conventional	Conventional	Conventional
UPS			
Type	Modular	Modular	Modular
Capacity	120kVA	150kVA	200kVA
No of modules	6	6	8
Redundancy	N+N	N	N+N
BACK UP DEATAILS			
No of battery	50	50	100
Voltage	12v	12v	12v
Ah	192Ah	200Ah	200Ah
Back up time	15mins	20 min Back For 80% Load	15 min Back For 75% Load
Standarad BoM	Download BoM	Download BoM	Download BoM