Huawei Data Center NetHos Cabinet

Introduction

Huawei Methods-M series of cabinets offer data centers with fundamental physical support to house relevant devices. These cabinets feature high reliability, safety, compatibility and availability. They have been widely applied in various data centers.

Scenarios

- Small and medium-sized data centers used by governments ,enterprises and carriers
- Large-scale IDC data centers

Features

High reliability: Eco-friendly material, stable structure

- Nonmetallic parts have passed strict RoHS tests
- Complies with IEC60297-3 standard to ensure safe and reliable performance
- The structure withstands static loads as high as 2,400 kg
- The cabinet adopts high-tensile-strength class A carbon cold rolled steel sheet and zinc-coated steel sheet to ensure mechanical strength and corrosion resistance
- Both front and rear doors allow high ventilation rates for good heat dissipation

High safety: Cabinet-level access control

- Optional electronic lock or mechanical code lock secure cabinet access, while supporting mechanical emergency unlocking
- Cabinets support remote management of door access control status

High compatibility: Easy installation

- Compatible with 19-inch rack-mount equipments of mainstream manufacturers
- Cabinets can be combined using accessories without disconnecting the doors
- Allows installation directly on an ESD floor, bracket, or concrete floor, simplifying engineering

High availability: Various cabinet accessories

- Cabinets can provide a variety of power supply distribution units
- Cable management and hardware installation accessories facilitate installation and operation
- A variety of air ventilation components ensure smooth hot and cold air flows

NetHOS-M Type Cabinet Appearance

Cabinet Model & Specifications

| Item	Technical Parameters				
Model	NetHos-M 42612	NetHos-M 47612	NetHos-M 42611	NetHos-M 42812	NetHos-M 47812
Rack Width (mm)	600	600	600	800	800
Rack Depth (mm)	1200	1200	1100	1200	1200
Rack Height (mm)	2000	2200	2000	2000	2200
Rack Space	42U	47U	42U	42U	47U
Maximum Depth for Equipment (mm)	850	850	750	850	850
Air Ventilation	Air enters from the front door and exhausts from the rear door				
Door Perforation Rate	≥80%				
Door Structure	Front single door and rear double doors with a 140° opening angle				
Static Load	2400kg				
Dynamic Load	1000kg				
Weight	The weight of the cabinet is 120 kg (may vary according to the accessories of different configurations)				
Mount Bar Adjustment Step	The depth stride of the mounting bars is 25 mm. By default, the cabinet supports device installation with a depth of 750 mm to suit the mainstream and high-performance servers in the industry.				
Amount of Cabling	Supports 150 network cables or 64 optical fibers on the right that are routed from the top of the cabinet				
Access Control Management	Supports electronic door locks and mechanical emergency unlocking to implement secure device management and remotely manage the opening status of the front and rear doors of cabinets.				
Color&Surface Finish	Black (PANTONE426C/RAL9005), Black surface with indoor powder-coat, meeting requirements for Class A environments				
Material	High-intensity class A carbon cold rolled steel plate and zinc-coated steel plate.				
Protection Level	IP20				
Environmental Protection Compliance	RoHS				
Installation	Installed directly on an ESD floor, bracket, or concrete floor				
Standard	IEC（International Electrotechnical Commission）60297-2				

Accessories

01 Door Accessories

Front Door： The front door is a mesh door. Air enters the cabinet through this door and flows out the rear door of the cabinet with a 75% ventilation rate. The front door has two kinds of door access. The keyed lock is the standard configuration. The electronic access control is optional configurations.

Keyed lock door
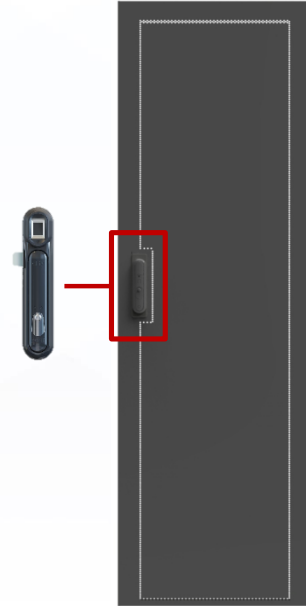
Fingerprint/Electronic access control door

Model	Door Dimensions (H × W × D/mm)	Cabinet Dimensions (H × W/mm)
Keyed lock door	1962mm × 594mm × 21mm	2000 × 600
	1962mm × 794mm × 21mm	2000 × 800
	2162mm × 594mm × 21mm	2200 × 600
	2162mm × 794mm × 21mm	2200 × 800
Fingerprint/Electronic access control door	1962mm × 594mm × 21mm	2000 × 600
	1962mm × 794mm × 21mm	2000 × 800
	2162mm × 594mm × 21mm	2200 × 600
	2162mm × 794mm × 21mm	2200 × 800

Door Status Sensor： The door status sensor generates an alarm when the cabinet door is opened abnormally. The sensor can be installed on the front or rear door of the cabinet to meet your requirements.


Rated Current (mA)	Rated Power (W)	Mounting Type	Switch Status	Housing Material
500	10	Screw	Normally open	White Acrylonitrile Butadiene Styrene (ABS) engineering plastic

Accessories

02 Power Supply Accessories

Cabinet PDU： NetHos-M cabinets can include various models of PDU2000 power distribution units that are delivered along with the cabinet. The PDU offers a diverse range of options that are configured based on your requirements.

C13   C19
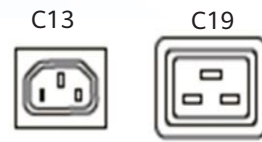
IEC Output Socket

Basic Type (full height)   Monitoring Type (full height)

Model [#]	Input Voltage	Input Current	Output Capacity	Output Socket	Installation Mode
PDU2000-32-1PH-Full height	220V/single-phase	32A	7.3kVA	IEC：20*C13+4*C19	Vertical installation
PDU2000-32-3PH-Full height	380V/three-phase	32A	21kVA	IEC：12*C13+9*C19	Vertical installation
PDU2000-32-1PH-Full height-Socket-level control	220V/single-phase	32A	7.3kVA	IEC：20*C13+4*C19	Vertical installation
PDU2000-63-1PH-Full height	220V/single-phase	63A	10.5kVA	IEC：16*C13+8*C19	Vertical installation

[#] All PDU models are not listed here. The specific model specifications are subject to the final configuration model in the configurator.

Ground Copper Bar： This copper bar is used for grounding devices inside the cabinet and is configured based on your requirements. The bar provides M6 and M8 terminals. M6 terminals are used for device grounding, and M8 terminals for leading out grounding cables. Insulators isolate the copper bar from the cabinet to ensure grounding reliability.

Model	Dimensions (H × W × D/mm)	Number of Terminals	Installation
Horizontal Copper Ground Bar	490 × 30 × 3	19 × M6+2 × M8	Horizontally installed on a rack rail
Vertical Copper Ground Bar	1600 × 20 × 3	15 × M6+2 × M8	Vertically installed beside a rack rail

Accessories

03 Air Flow Management Components

Blank Panel： For any unoccupied spaces in the cabinet, installing blank panels seals the space and enhances the appearance of the cabinet. Simply and manually insert the panels into the cabinet, no tools required.

IU Blank Panel

2U Blank Panel

Panel Model	Dimensions (H × W × D/mm)	Weight
1U	44 × 482.6 × 25	0.12kg
2U	88.5 × 482.6 × 25	0.216kg

Side Panel： Side panels seal the cabinet sides to prevent dust from getting in and ensure correct air flow through the cabinet. Flexible configuration based on customer requirements.

Cabinet Dimensions (H × D/mm)	Panel Dimensions (H × W/mm)
2000 × 1200	900 × 1088
2000 × 1100	900 × 988
2200 × 1200	1000 × 1088

Cabinet Sealing Plate： Installing these bars on the front and rear of a cabinet seals the bottom space. The sealing plate of the cabinet is used to block air flows, and the rear sealing plate is used to beautify the cabinet.

Cabinet Width (mm)	Bar Dimensions (H × W × D/mm)
600	82 × 598.5 × 11
800	82 × 798.5 × 11

Accessories

 03 Air Flow Management Components

Bottom Plate： This plate has a removable structure and is applied in front air supply and fully sealed scenarios.

Cabinet Width (mm)	Plate Dimensions (W × D/mm)
600	561 × 1080
800	761 × 1080

Cabinet Bracket： Available adjustable models, the bracket elevates and supports the cabinet. The adjustable model has a minimum adjustment precision of 1mm.

Bracket Model	Cabinet Width (mm)	Cabinet Depth (mm)	Bracket Height (mm)
Adjustable Bracket[#]	600/800	1100/1200	410~700
		1100/1200	270~410

[#] The cabinet bracket part number is not in the standard configurator. Manually add the configuration based on the configuration manual and project requirements.

Accessories

04 Cable Management Accessories

Horizontal Cable Rack: The rack provides horizontal cable management and is usually installed in the back of the cabinet. A 1 U cable rack is used for horizontal cabling inside the cabinet and occupies 1 U space.

Rack Dimensions (H × W × D/mm)	Amount of Cables	Occupied Space
43.6 × 482.6 × 91	48 × 6 mm² cable	1U

**Cable Ring:** This ring provides vertical cable management and is installed on the cabinet column.

Standard-size Cable Ring	Ring Dimensions (H × W × D/mm)
Small Cable Ring	55 × 48 × 188.6
Standard-size Cable Ring	55 × 48 × 44

5.2.8 Depth-Directed Cable Tray: A depth-directed cable tray is used for depth-directed cabling. Its telescopic design applies to various distances between mounting bars.

Rack Dimensions (H × W/mm)	Depth (mm)
50 × 36	442.5~742.5

Cable Tray: A cable tray is used for forward and backward cabling. It uses mounting ears to facilitate device installation.
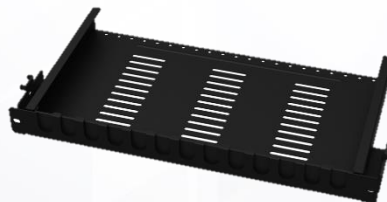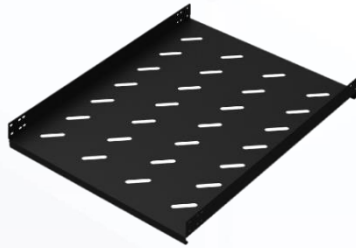
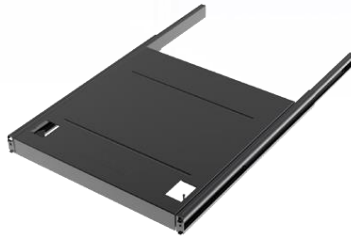| Tray Dimensions (H × W × D/mm)	Occupied Space
43.6 × 482.6 × 250	1U

Accessories

05 Installation Accessories Inside the Cabinet

Fixed Tray: A fixed try is used to facilitate device installation and placement. It supports standard 19-inch devices, can bear a weight of 100 kg, and does not occupy any U space of its own after installation.

Item	Tray Dimensions (H × W × D/mm)	Load Capacity (kg)	Occupied Space
Standard Fixed Tray	62 × 484 × 627	100	1U
Short Fixed Tray	62 × 484 × 527	100	1U

Adjustable Tray: An adjustable tray is used to carry devices. Its depth can be adjusted to match the distance between two mounting bars. It does not support drawer maintenance.

Tray Dimensions (H × W/mm)	Load Capacity (kg)	Depth (mm)	Occupied Space
43.6 × 481	100	570 ~ 870	1U

Guide Rail: A guide rail is used to facilitate device installation. It uses a standard design and supports the installation of standard devices without occupying any U space. Guide rails are used in pairs and a pair of guide rails can bear 50 kg.

Item	Dimensions (H × W × D/mm)	Load Capacity (kg)
Standard guide rail	36 × 50 × 635	50
Short guide rail	36 × 50 × 535	50

1. The cabinet configuration depends on the actual project requirements. The accessories listed in the brochure are not standard configuration.
2. The component pictures may differ from the actual ones and are for reference only.

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