HUAWEI DATA CENTER FACILITIES SOLUTIONS

CATALOGUE

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1. Power ICT in a Smart Way

Smart Modular Data Center Solutions


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FusionModule2000

Indoor Modular Data Center

Introduction

Huawei FusionModule2000 is a new generation smart modular data center solution, which dedicated to providing customers with simple, efficient, and reliable data center solutions.

It's a modular-designed, highly integrated solution which comprises power supply system, cooling system, rack & structure system, cabling system, management system within a module, meeting the requirements for quick delivery and on-demand deployment.

Furthermore, the Huawei smart module uses the i^3 intelligent management system to comprehensively improve the reliability and efficiency of power supply and cooling systems. This significantly improves data center availability, and O&M efficiency.

Standard Dual- row

Application scenarios

- The FusionModule2000 uses an air-cooled cooling system and is mainly applicable to small- and medium-sized data centers. The solution features simple design and high building adaptability, lowering the requirements of room height and reconstruction. It meets the data center deployment requirements of various sectors such as enterprise headquarters or large branches, bank headquarters and secondary branches, governments, carriers, education, and healthcare.

Standard Dual-row Smart Screen Version*

Features

Simple

- Modular design,one module one DC,on-demand deployment and flexible expansion

Green

- iCooling intelligent optimization*, reducing the energy consumption of cooling system by 8% to 15%
- SmartLi Inside* supports Huawei smart lithium batteries deployed in the module. Compared with traditional lead-acid batteries, footprint is reduced by 70% under the same load and same backup time
- Wet film humidification*:Compared with traditional electrode humidifiers, wet film humidifiers reduce energy consumption by 95%
- Industry's first air-cooled smart modular DC PUE test and certification, The annual average PUE is as low as 1.245 @Beijing

Smart

- iManager: Space, Power, Cooling (SPC) visualization, automatic asset management simplified O&M.
- 3D view* clear display of key information and alarms about power distribution and cooling system, automatic management of assets*, automatic asset tracking, and no manual counting.
- Local 43-inch smart screen * intuitive display of intelligent features,
- simplifying O&M

Reliable

- iPower: Visualization of power supply chain, fault auto-locating and auto
- shutdown for proactive protection;
- SmartLi Inside* :Three-layer BMS ensure the reliability of lithium batteries.
- Innovative intelligent refrigerant leakage detection prevents cooling capacity decrease or air conditioner breakdown.

Simplified Single-row

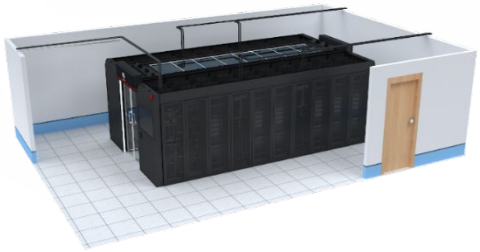
*Optional Features

Specifications

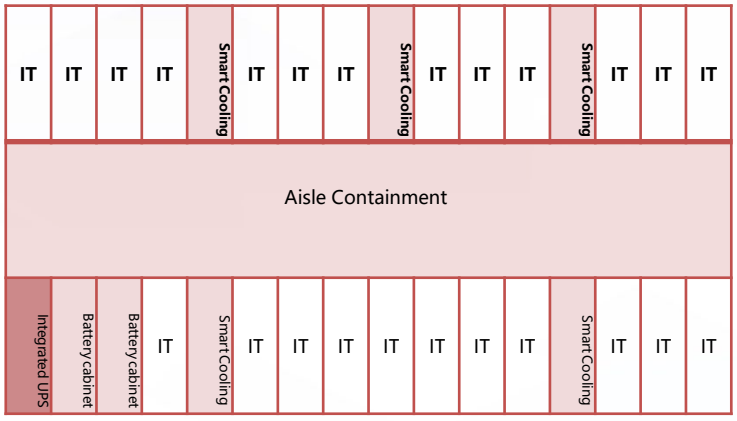
Item		Specifications
Micro Module	Dimensions	Single row (with aisle containment) (L×W×H): L×2400×2410mm; L×1350×2410mm; L×1600×2300mm
		Dual row (with aisle containment) (L×W×H): L×3600×2410mm; L×3400×2410mm; L×3600×2610mm
	Cabinets per module	Single row≤24 cabinets; dual row: ≤48 cabinets
	Power supply	380/400/415Vac, 50/60Hz, 3Ph+N+PE
	Max IT load per module	125kW (with integrated UPS)/ 145kW (with integrated PDC)/ 310kW (with New main way)/ 235kW (with precision PDC)
	Operation condition	Ultra low temperature condition: -40ºC to 45ºC(Need low-temp kit) T1 condition: -20ºC to 45ºC; T3 condition: -5ºC to 55ºC(Need T3 outdoor unit)
	Cable routing	Routed in/out through the top of cabinets
	Installation	Installing on concrete floor or raised floor
Cabinet	Dimensions (H×W×D)	2000mm×600/800mm×1200mm; 2000mm×600mm×1100mm; 2200mm×600/800mm×1200mm
	Space available	42U/47U
	Cabinet Porosity	Front and rear doors: hexagonal mesh door design, porosity rate ≥ 75%
	Protection level	IP20
Air-cooled In-row air conditioner	Cooling capacity	25kW/35kW/46kW
	Dimensions (H×W×D)	25kW:2000mm×300mm×1100mm; 35kW:2000mm×600mm×1200mm; 46kW:2000mm×600mm×1200mm; (Simplified Single-row can only support 46kW)
	Power supply	380V AC~415V AC 50/60Hz, 3Ph+N+PE
	Refrigerant	R410A
Integrated UPS (UPS inside)	Input voltage	380/400/415Vac, 50/60Hz, 3Ph+N+PE
	Input	250/400A MCCB (single input); 250A/400A ATS (dual input)
	Input power factor	Full load > 0.99, Half load > 0.98
	Output power factor	1.0
	Rated capacity	30~125kVA: IT Load ≤ 120 kW, power modules ≤ 4, the capacity of a single power module is 30kVA IT Load > 120 kW, power modules ≥5, the capacity of a single power module is derated to 25kVA
	Output	IT: 40A/1P×24×2; A/C: 40A or 63A/3P×8; lighting: 10A/1P×3
	Efficiency	≥ 96% (Linear Load)
	AC SPD	5kA, 8/20μs
Integrated power distribution cabinet (UPS outside)	Input voltage	380/400/415Vac, 50/60Hz, 3Ph+N+PE
	Input	IT: 160/250A MCCB; A/C: 160/250A MCCB (single/dual input)
	Rated input current	IT: 160A/250A, Air conditioner: 160A/250A
	Output	IT: 40A/1P×24×2; A/C: 63A/3P×16; lighting: 10A/1P×3
	AC SPD	20kA, 8/20μs
Precision power distribution cabinet (UPS outside)	Input voltage	380/400/415Vac,50/60Hz,3Ph+N+PE
	Input	160/250/400A MCCB (single/dual input)
	Output	40A/1P, max 144 routes
Smart busway (UPS outside)	Input voltage	380/400/415Vac,50/60Hz,3Ph+N+PE
	Input	250/400A MCCB (single input)
	Output	40/63A 1P (6 branches in one Power Distribution Unit, can be expanded with the length of cabinet)
SmartLi Inside	Single Lithium battery cabinet	Contains 16 battery modules. Two battery strings are connected in parallel, and each battery string contains eight battery modules connected in series.
	Number of Lithium battery cabinets	2N scenario: ≤ 4 battery cabinets; N+1 scenario: ≤ 2 battery cabinets
	Typical backup time	The backup time can be 15 minutes, 30 minutes, or 1 hour

Recommended Configurations—UPS Inside the Module

R24 Dual-Row Module with Lithium Batteries in Row



Dual-Row Cabinet Scenario

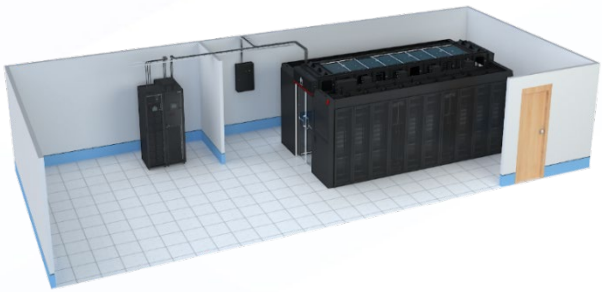


R24 Tyapical Layout of the UPS and Lithium Batteries in Row

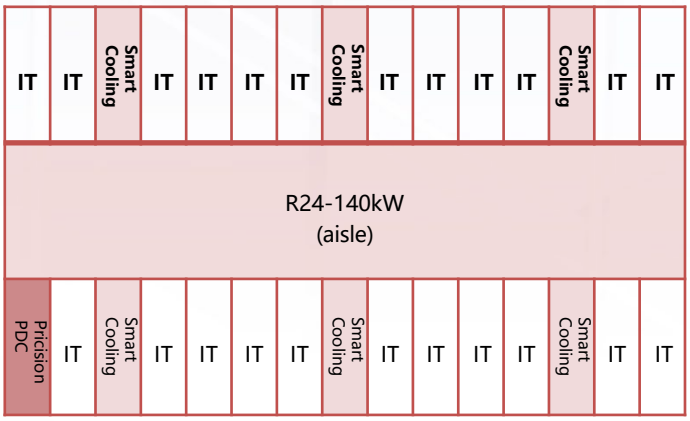
IT Load (kW)	Power Supply	Redundancy	A/C Configuration	Battery
30	Integrated UPS	N+ 1/ 2N	25kW×2	In-row (Battery cabinet)/Outside Installation
40			25kW×3	
60			35kW×3	
80			35kW×4	
100			46kW×4	
125			46kW×5	

Recommended Configurations——UPS Outside the Module

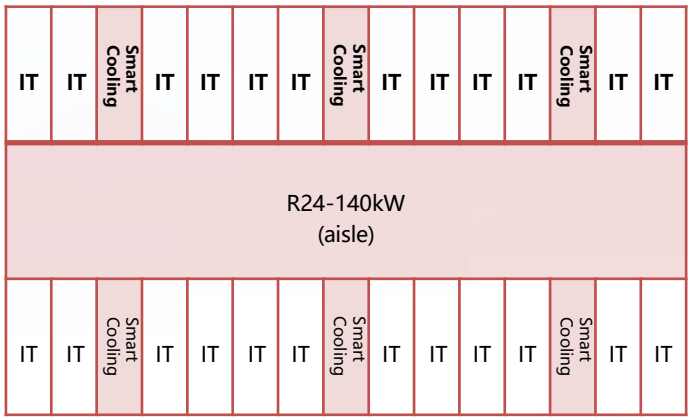
UPS Outside the Module(Pricison PDC)



UPS Inside the Module(Smart Busway)



R24 Typical Layout of Dual-Row (Precision PDC)



R24 Typical Layout of Dual-Row (Smart Busway)

IT Load (kW)	IT Power Supply	AC Power Supply	Redundancy	AC Configuration
20	Integrated PDC/ Precision PDC/Smart Busway	Integrated PDC/ Power Distribution Box	N+1/2N	25kW×2
30				35kW×2
40				25kW×3
60				35kW×3
90				35kW×4
120				46kW×4
145	Smart Busway/Precision PDC	Power Distribution Box		46kW×5
160				
198				46kW×6
235	Precision PDC			46kW×7

FusionModule2000-S

Row Smart Modular Data Center Soluton

Introduction

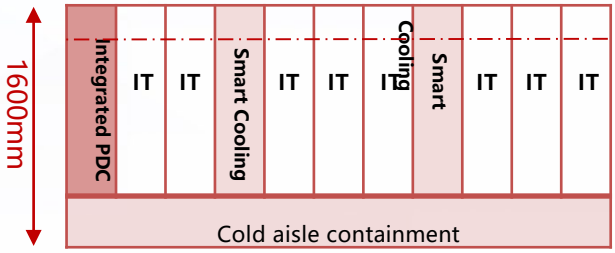
FusionModule2000-S is a new generation smart modular data center solution, which dedicated to providing customers with simple, efficient, and reliable data center solutions.

FusionModule2000-S adopts a modular design and integrates power supply, temperature control, cabinet, aisle, cabling, and monitoring system in a single row of aisles, meeting the requirements for quick delivery and on-demand deployment.

In addition, FusionModule2000-S uses i3 to build intelligent core subsystems and introduces AI technologies to implement intelligent linkage control of power supply and cooling, and automatically manages equipment room assets, significantly improving data center reliability, availability, and O&M efficiency.

Application scenarios

- High-density HPC supercomputing: 1600mm deep cold and hot aisle containment. Supports a maximum of 30 kW/R cabinet. A 900 mm deep server can be installed， It can be used in supercomputing applications in universities and research institutes.
- Simplified MDC: 1350 mm deep hot aisle containment, simplified design, aisle-free design, strong building adaptability, and applicable to most equipment rooms in harsh conditions such as small space and low floor height.



Typical layout of the HPC scenario

Features

Simple

- All-in-one design, one-stop fast deployment, flexible expansion
- The minimum deployment height is only 2.3 m.
- The 1350 mm deep aisle can be contained in the hot aisle, and the 1600 mm deep aisle can be contained in the cold and hot aisle.

Green

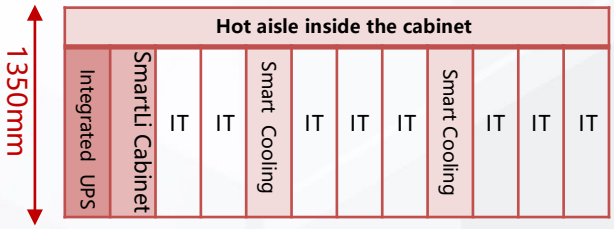
- Integrated cooling, power supply, and monitoring, SmartLi Inside* supports Huawei smart lithium batteries deployed in the module. saving 50%+ footprint compared with traditional solution.
- Cold and hot aisle containment ,high environment adaptability.
- Low PUE: 30% lower PUE compared with the traditional DC

Smart

- Vertical intelligent partitioning, precisely matching the heat dissipation of the IT equipment.Intelligent follow-up of air volume and cooling capacity, stable running without hot spots

Reliable

- Support N+1 cooling system backup and 2N power backup, providing highly reliable power supply and cooling.
- Cold and hot aisle containment, automatic door opening in emergency, ensuring emergency heat dissipation..



Typical layout of the simplified MDC scenario

*Optional Features

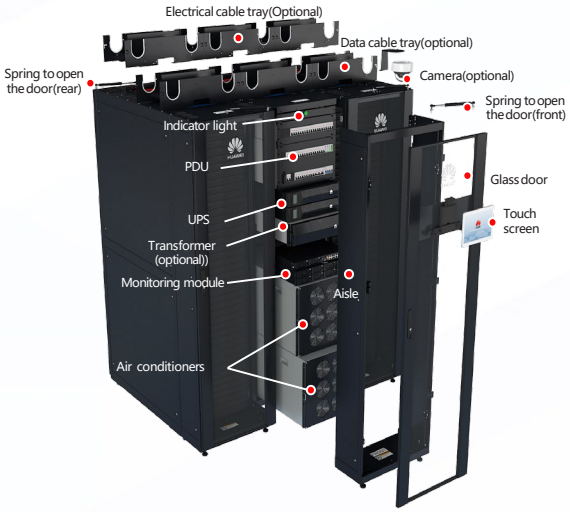
Specifications

Item	Specfications	
Cabinet and Aisle	Dimesions（L×W×H）	L×1350mm×2000mm（with hot aisle containment) L×1600mm×2000mm（with hot and cold aisle containment)
	Power supply	380/400/415Vac，50/60Hz，3Ph+N+PE
	Cabinets per module	≤24 cabinets （Including power supply, cooling and battery cabinets)
	Operation condition	Ultra low temperature condition: -40ºC to 45ºC Need low-temp kit) T1 condition: -20ºC to 45ºC;
	Cable routing	Routed in/out through the top of cabinets
	Maintenance space	≥1350mm(front), ≥900mm(rear)
	Installation mode	Installing on concrete floor or raised floor
Air-cooled In-row air conditioner	Cooling capacity	46kW
	Dimensions(W×D×H)	600mm×1350mm×2000mm
	Power supply	380V AC~415V AC 50/60Hz 3Ph+N+PE
	Recommended circuit breaker	63A/3P
	Power supply mode	Supports dual power supplies, Supports UPS power supply in HPC scenarios.
	AC configuration	N+1
	Air volume	9000m³/h@46kW
	Length of water sensor	Standard 5 m (can be extended to 50 m)
	Refrigerant	R410A
Air-cooled outdoor unit@T1 working condition	Power supply	380V~415V AC，3PH/N/PE，50Hz/60Hz
	Dimension(W×D×H)	1356mm×1094mm×1107mm
	Net/gross weight（kg）	122/169
	Air volume	12000m³
	height deviation	-8~30m （If the outdoor unit is lower than the indoor unit, the value is negative.)
	Length of the pipe	0~100m (between ondoor and outdoor units)
Monitoring/management system	Management system	ECC800-Pro
	Power supply mode	Single/Dual
	Water leakage sensor	Standard configuration
	Smoke sensor	Standard configuration
	Access control	Intelligent electronic lock, fire extinguishing linkage, and automatic spring door
	Temperature sensor	Configure 1 PCS for each air conditioner, Cabinet-level temperature map is optional.
Integrated UPS	Rated capacity	60kW/125kW
	Input	250/400A MCCB (single input); 250A/400A ATS (dual input)
	Output	IT：2×24×40A/1P，A/C：8×40A/3P or 8×63A/3P，Lighting：3×10A/1P
Integrated power distribution cabinet	Rated capacity	95kW/145kW
	Input	IT: 160/250A MCCB; A/C: 160/250A MCCB (single/dual input)
	Output	IT: 40A/1P×24×2; 63A/1P×24×2; 40A/3P×8×2;A/C: 63A/3P×8 or 40A/3P×8 ; lighting: 10A/1P×3
Precision power distribution cabinet	Rated capacity	95/148.5/235/310kW
	Input	160/250/400A MCCB (single/dual input)，630A MCCB （single input)
	Output	40A/1P, 63A/1P，40A/3P，63A/3P, max 144 routes per rack
New main way	Rated capacity	161kW@415VAC，148kW@380VAC @ 250A MCCB 258kW@415VAC，236kW@380VAC @ 400A MCCB 339kW@415VAC，310kW@380VAC @ 630A MCCB
	Input	250A/400A/630A MCCB
	Output	40A,63A/1P x6 or 63A,40A/3P x 2

FusionModule800

Introduction

FusionModule800 Smart Small Data Center is a new-generation data center solution. It is integrated with PDU, UPS, monitoring , cooling and rack system in a comprehensive rack in order to save space. IT racks can be deployed flexibly on both sides. A single module can support maximum12 racks and 25kW IT load (T3: IT Load≤21kW), the maximum power density for each rack is 7kW/ R(T3:≤6kW). Cold and hot aisle containment to saving Energy and reduce noise.



FusionModule800 Architecture

Application Scenarios

- Finance, Education, Health Care, Public Security, SMEs, Retailing & Merchandising, Edge DC, etc.

Features

Simple

- All components are prefabricated in factories. only need to be combined onsite, hardware are installed in 4 hours, 2 days business on line.
- Fire fighting module inside*, on need reconstruction
- Real-time monitoring of mobile apps, centralized monitoring of multiple sits*.

Green

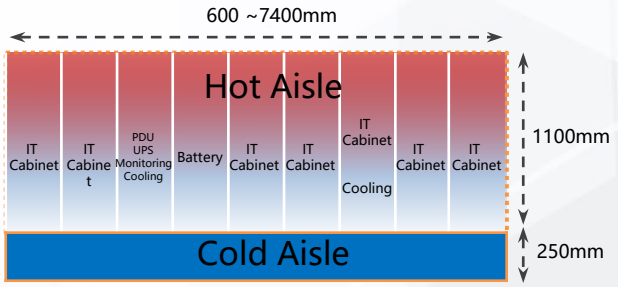
- High integrated design + lithium battery, Saves 2 to 3 cabinets footprint.
- containment, dustproof and noise reduction, and Higher efficiency of cooling system

Smart

- Facial recognition, password-free login, and key-free door opening
- Intelligent O&M, unified management of multiple data centers*

Reliable

- Reliable dehumidification at low load to avoid condensation in the data center
- Highly stable LFP battery cell, no fire risk and more reliable
- Open rack doors automatically in case of cooling system failure and the temperature exceeds the limit



*: Optional

Specifications

Item	Description	Specification
Overall Parameters	Power system	380/400/415Vac, 50Hz, 3Ph+N+PE
	Aisle containment	Cold and hot aisle containment
	System protection level	IP20
	Ambient temperature	T1*: -20℃~+45℃; T3*: -10℃~+55℃; LT*: -40℃~+45℃
	Maximum cabinet quantity	12
	Quantity of IT cabinets	0~10
	Maximum IT load	25kW (T1* & LT*); 21kW (T3*)
	Max power density /Rack	7kW (T1* & LT*); 6kW (T3*)
	IT cabinet weight	Static load 1500kg, Dynamic load 1000kg
	Total Dimensions	2000×(600-7400)×1350(H×W×D mm)
Cooling system	Cooling capacity	12.5kW*
	Configuration	N, N+1
	Cooling mode	Direct expansion air-cooled
	Installation	Rack- mounted
	Air volume	2600m³/h
	Air supply mode	Front supply, rear return
Power System	SPD	CLASSII/C, In 20kA, Imax 40kA, 8/20us
	Input power	Single or dual inputs
	UPS capacity	10kVA
	UPS configuration	N, N+1
	UPS input voltage range	80~280Vac，40-70Hz，1Ph+N+PE
	UPS output power factor	1
	UPS efficiency	Up to 96%
	Battery type	Lithium battery
	Battery capacity	100Ah @ 0.2C，35℃ (4800Wh @ 0.2C，35℃)
	Backup time	60min~240min
	rPDU (Optional)	No-Intelligent rPDU: IEC or GB,on site installation Intelligent rPDU:IEC,on site installation
	Maintenance bypass	Standard
Monitoring system	Function	Remote web page access and unified management of multiple branches
	Local monitoring	10-inch tablet screen , supporting facial recognition login and keyless door opening
	Standard functions	Smoke sensor, T&H sensor, intelligent lock, 10-inch PAD, SMS/email alarm, and local app O&M
	Optional functions	Video surveillance, water leakage sensor, and mobile O&M

Note:
1, The cooling capacity 12.5kW is obtained when the indoor dry bulb temperature is 37.8℃, and outdoor dry bulb temperature is 35℃,relative humidity 20%.
2, ATS is optional and can be installed on site
3, T1:-20℃~ +45℃, LT: -40℃~ +45℃;T3:-10℃~ +55℃
4, The Converged cabinet part number don't include cooling out door unit. Three type of outdoor unites are freely configured with the converged cabinet.

FusionModule500

(Integrated Cooling Solution)

Introduction

Huawei FusionModule500 is a new-generation edge data center solution, which integrates the UPS, PDU, cooling, monitoring, power backup, and fire extinguishing system* in one cabinet, it can support a maximum of 3kW IT&CT loads. FusionModule500 is pre-tested, pre-installed, and pre-commissioning before delivery, enabling quick deployment on site. The remote web-based monitoring function enables remote O&M for a single site. In addition, with Huawei data center management system, It can also implement centralized management of multiple branches.

Application scenarios

- Finance, Education, Health Care, Public Security, SMEs, Retailing & Merchandising, Edge DC, etc.

Features

Simple

- All-in-one design and integrated cooling unit inside, quick deployment within 2 hours
- Fire fighting module inside*, on need reconstruction

Green

- Highly integrated design, space saving by 50%
- Hot and cold aisle containment to improve the cooling efficiency and reduce noise
- SmartLi inside, smaller size with longer lifecycle

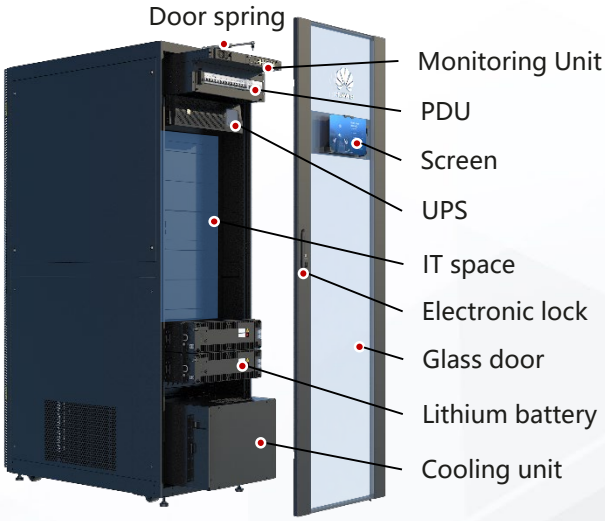
Smart

- Facial recognition, password-free login, and key-free door opening
- Intelligent O&M, unified management of multiple data centers*

Reliable

- Highly stable LFP battery cell, no fire risk and more reliable
- Open rack doors automatically in case of cooling system failure and the temperature exceeds the limit

*: Optional



FusionModule500 Architecture

Specifications

Item		Description	Specification
System features		Power system	220/230/240V AC, 1Ph+N+PE, 50/60Hz
		Aisle containment	Cold and hot aisle containment
		Installation mode	Concrete floor or raised floor
		Cable route	From the top
		Humidity and temperature	0℃~40℃, 5~95%
		Altitude	0~1000m (when the altitude is greater than 1000m, the capacity is derated)
		Maximum ICT load	3kW
		Total dimensions	600mm×2000mm×1100mm (W×H×D mm)
		ICT space	≤22U[a]
		Protection level	IP20
		Weight	360KG (@3kW, 1h battery backup)
Power system	Input and output	Input	220/230/240V AC, 1Ph+N+PE, 50/60Hz, 63A, Single or dual inputs
		Output	220V AC, 48V DC (48V output power ≤ 1500 W)
	UPS	Capacity	6kVA
		Configuration	Single UPS
		Voltage input range	80~280Vac，40-70Hz，1Ph+N+PE
		Power factor	1
		Efficiency	Up to 96%
	Battery	Battery capacity	48V DC, 100Ah @ 0.2C
		Dimension	442mm×130mm×396mm (W×H×D mm)
		Backup time	1h~4h[b]
Cooling system		Cooling capacity	3.5kW
		Cooling mode	Direct expansion air-cooled
		Air supply	Front air supply and rear air return
		Installation	Rack-mounted installation
Monitoring system		Function	Remote web page access and unified management of multiple branches[c]
		Local monitoring	10-inch tablet screen , supporting facial recognition login and keyless door opening
		Standard functions	Smoke sensor, T&H sensor, intelligent lock, 10-inch PAD, SMS/email alarm, and local app O&M
		Optional functions	Video surveillance, water leakage sensor, and mobile O&M

Remark:

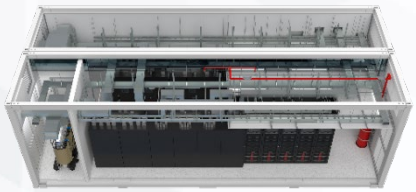
a)ICT space = 22U is calculated based on 3kW and 1h backup time without fire extinguish module. The actual available space depends on specific configuration.
b)FusionModule500 supports up to 4h battery backup, and the actual backup time depends on the number of battery modules;
c)The cooling capacity is obtained when the indoor dry bulb temperature is 37℃, the indoor wet bulb temperature is 24℃, and the outdoor dry bulb temperature is 35℃. The actual cooling capacity varies depending on the indoor and outdoor ambient temperatures and relative humidity.
d)Unified management of multiple branches requires Huawei intelligent data center management system;
e)Water leakage detection is an optional function, and the dot-type/rope-type detection sensor can be selected.
f)The SMS/email alarm function needs to be used with the SIM card/network. The mobile O&M app needs to be used with Huawei intelligent data center management system.

Main parameters of the reference design(POD)

Category	Item	FanWall Cooling solution	Indirect evaporative cooling scenario
General	Altitude	Altitude≤4000m①	
	Environment adaptability	Class A/B/C environment: Class C environment is 500m~3700m away from strong corrosive environments (such as seaside, garbage pileup, and heavily polluted chemical plants)②.	Class A/B/C environment: Class B environment is at least 3,700m away from strong corrosive environments (such as seaside, garbage pileup, and heavily polluted chemical plants)②.
	Operating temperature	-5~+55° C，-40~+45° C(if the temperature is lower than –5° C, perform external wall insulation)	-40~+45° C(if the temperature is lower than –5° C, perform external wall insulation)
	Working humidity	5%RH~95%RH	
	Tier Level	TIER III，2N	
	Stack Layers	≤5 layers	
	Prefab module life	25-year standard, 50-year customization for specific environments③	
	Total IT capacity	≤2016kW@336R/layer	≤1344kW@336R/layer
	Average power per cabinet	≤12kW(Up to 15 kW per cabinet)	≤8kW(Up to 15 kW per cabinet)
	W x D x H	600mm×1200mm×2000mm/2200mm④	
load design	live load	Power supply area: 15 kN/m2; equipment area: 12 kN/m2; corridors and public areas: 5 kN/m2 ; ceilings: 2.4 kN/m2; rooftops: 0.75 kN/m2	
	Seismic load	Ss≤0.67 S1≤0.2；Soil type≤D Design category≤D	
	Other payloads	Wind load ≤ 1,000 mph	
	load combination	ASCE7-10，EN1990，GB 50009	
Electrical	Power System	380/400/415V 50/60Hz 3P+N+PE	
	UPS	2×1200kVA	2×1600kVA
	Backup time	SmartLi 10 minutes@full load	
Temperature control	Cooling redundancy	N+1，10 minutes continuous cooling @ full load	
	Temperature and humidity range of the IT device area	18-27°C；20%RH~80%RH	
	heat transfer coefficient of envelope	Total heat transfer coefficient ≤0.3 W/(m*K)	
Monitoring	DCIM Configuration	iManager NetEco	
	Optional Features	Work order management, energy efficiency management, temperature map, mobile app O&M, asset capacity management, iCooling, and third-party southbound access	
	Northbound access	SNMP NBI, WebService NBI, CTCC C NBI, and FTP NBI	
	Power and environment monitoring system	Yes, collected by the ECC	
	In-room access control system - security	Yes, three-in-one card reader，third-party security platform	
	Modular Access Control System - Operation	Yes, three-in-one card reader，managed by the ECC800	
	CCTV	Including room-level and module-level，and the default storage duration is 90 days.	
	Hydrogen detection	Optional	
	Water immersion system	Yes, addressable	
	Intelligent lighting	Optional	
	SMS alarm	Optional	
Fire protection	Fire extinguishing system	Including gas fire extinguishing in equipment areas, water spray in non-equipment areas, non-addressable (customized addressing type)	
	Fire resistance time of bearing beam and column	120 minutes	
	Fire resistance time of the external protective structure	Standard: the external wall 90 minutes and the internal wall 60 minutes customizable: 120 minutes (By adding a fireproof board)	
	Fire resistance time of the fire door	90 minutes	
	Fire Extinguishing Agent and Detector	HFC227-ea，equipped with ASD	

① The power supply and distribution capability derating is according to EN/IEC 62040-3 when the altitude exceeds 1000m. For details about the cooling parameters, see Huawei smart cooling product data sheet. The overall derating is the one with the larger derating coefficient.
② For the definition of class 2A/B/C environments refer to Huawei enterprise standards. The corresponding ISO9223/12944 environment classification is C1/C2/C3/C4.
③ According to ISO12944-2/ISO12944-1, the equivalent service life of a 1440-hour salt spray test in a C4-High environment is 25 years. 50 years in the C3 environment and 40 years in the C4/C5 environment (A third-party certification report can be provided.)
④ Cabinets are not defaulted, only showing the dimension limitation.

Introduction to Core Modules

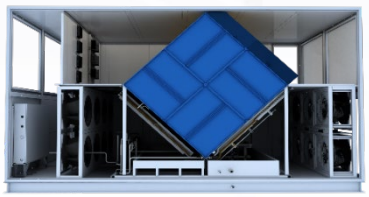


Power Module

- 380/400/415V 50/60Hz; 3P, four-wire+PE, UPS: 2*1,200 kW, input power factor 0.99
- SmartLi-512V-80Ah， Backup 10min@ full load
- Dimensions (mm): 12,192 (40ft) (L) * (2*2,438)(W)*4,150(H)
- Busbar connection
- 10min@ full load under continuous refrigeration

MEP Module
(intelligent Fan wall)

- 3* FusionCol8000-C210 (210kW/unit), total cooling capacity of 630 kW
- Dimensions(mm): 9,827 (L)*3,495 (W)*4,150 (H)
- Inlet/return water temperatures: 20°C/28°C
- Cold aisle temperature control: 24°C / 36°C
- 10min continuous cooling@full load



MEP Module
(indirect evaporative cooling)

- 1* FusionCol8000-E240 (240kW/unit), air volume: 55,000 m³/h; supplementary cooling capacity : 10%~55%
- Supply air temperature (°C)/Humidity (%): 25°C/50%
- Return air temperature (°C)/Humidity (%): 38°C/25%
- Dimensions: 6,058(L)*2,438(W)*4,150(H)
- Net weight/Gross weight: 11000kg/11500kg

Equipment Module

- 28 IT cabinets ① : 336 kW (a single cabinet supports a maximum of 15 kW)
- Dimensions (mm): 12,192 (40 ft)(L)*3495/2438 (W)*4,150(H)
- Support cabinet dimensions (mm): 600(W)*1,200(D)- 2,000/2,200(H)
- With aisle containment
- 250A/400A busway, A/B dual power supply for each row
- 2 pcs 3P/32A rPDUs for each cabinet
- No raised floor, floor-mounted

① Only the device installation space is provided by default.

Design Specifications

Item	Standards compliance of the Chinese version
System Design	GB 50174-2017 Code for design of data centers
Structural System	GB 50068-2018 Unified standard for reliability design of building structures; GB 50223-2008 Standard for classification of eismic protection of building constructions; GB 50009-2012 Load code for the design of building structures; GB 50011-2010 Code for seismic design of buildings; GB 50017-2014 Standard for design of steel structures
Fire extinguishing system	GB 50016-2014 Code for fire protection design of buildings; CECS 200-2006 Technical code for fire safety of steel structure in buildings; GB50116-2013 Code for design of automatic fire alarm system; GB50370-2005 Code for design of gas fire extinguishing systems
Power supply and distribution system	GB50052-2009 Code for desing electric power supply systems ; GB50054-2011 Code for design of low voltage electrical installations; GB50034-2013 Standard for lighting design of buildings; GB50217-2018 Standard for design of cable of electric power engineering; JGJ16-2016 Code for electrical design of civil buildings; GB50057-2010 Design code for protection of Structures against lightning; GB 50343-2012Technical code for protection of building electronic information system against lightning.
HVAC system	GB50019-2003 Code for design of heating ventiletion and air conditioning; GB50015-2009 Code for design of building water supply and drainage.
Monitoring System	GB50395-2007Code of design for video monitoring system; GB50348-2018 Technical Code for Engineering of Security & Protection System.

Huawei Digital Power

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