Prefabricated Data Center

FusionModule1000A Prefabricated All-in-One Data Center

Introduction

Huawei FusionModule1000A is an advanced outdoor and prefabricated all-in-one data center facility solution. The solution provides reliable, stable and green environment for IT equipment. The solution can be applied to multiple industries and scenarios and meet data center's requirements on energy saving and fast deployment.

Applicable Industry and Scenario

Enterprise: small data center

Government: data center of smart city and safe city

Education: data center of university and science institute

Energy: data center of mining and exploration field

Finance: backup data center

Transportation: power supply room of airport/railway station/port

Telecom carrier: small IDC,DR DC,edge DC

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FusionModule1000A 40ft

Features & Value

Simple

- Enclosure, power, cooling, firefighting DCIM system, server and switch are prefabricated. All faciliites are preinstalled pretested before delivery
- Produtized solution minimizes the engineering work and the on-site installation of a plug& play data ceter only takes one day.
- Moveable design makes relocation easy and deployment flexibly.

Efficient

- High-efficiency modular UPS, smart in-row cooling, aisle containment, enclosure of low heat transfer coefficient, industry-leading PUE
- Huawei NetEco system centralize the management of multiple sites.
- Efficient O&M anywhere& anytime with PAD and mobile APP

Reliable

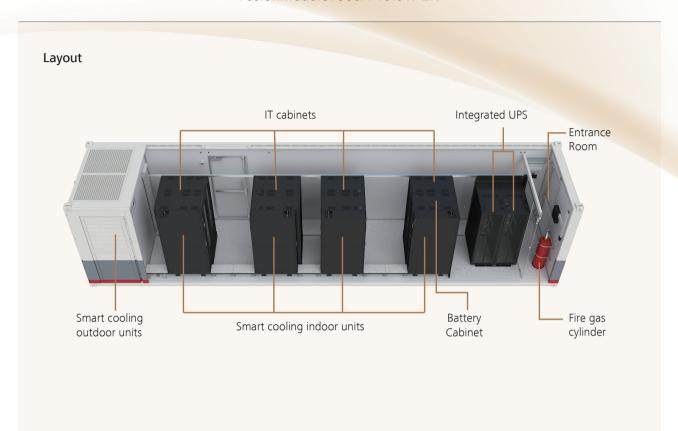
- Durable enclosure with 25-year servive life
- IP55 protection (IP65 optional) and GR-63-CORE Zone3 anti-seismic 120min fire-resistance when covered with customized fire-proof panel, EN 1627–EN 1630 Class 3 anti-theft(optional)

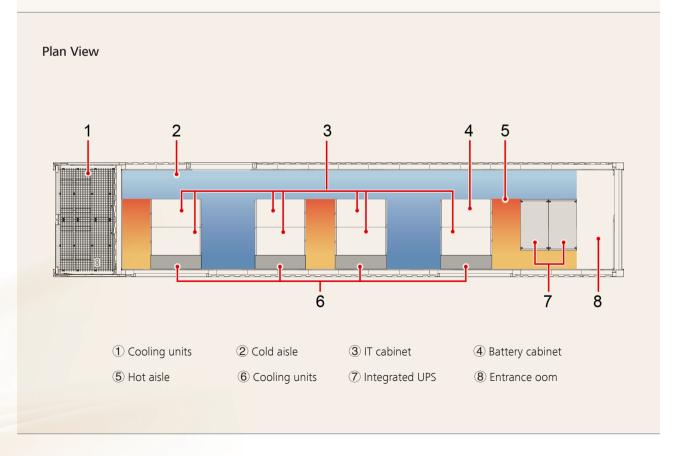


FusionModule1000A Site

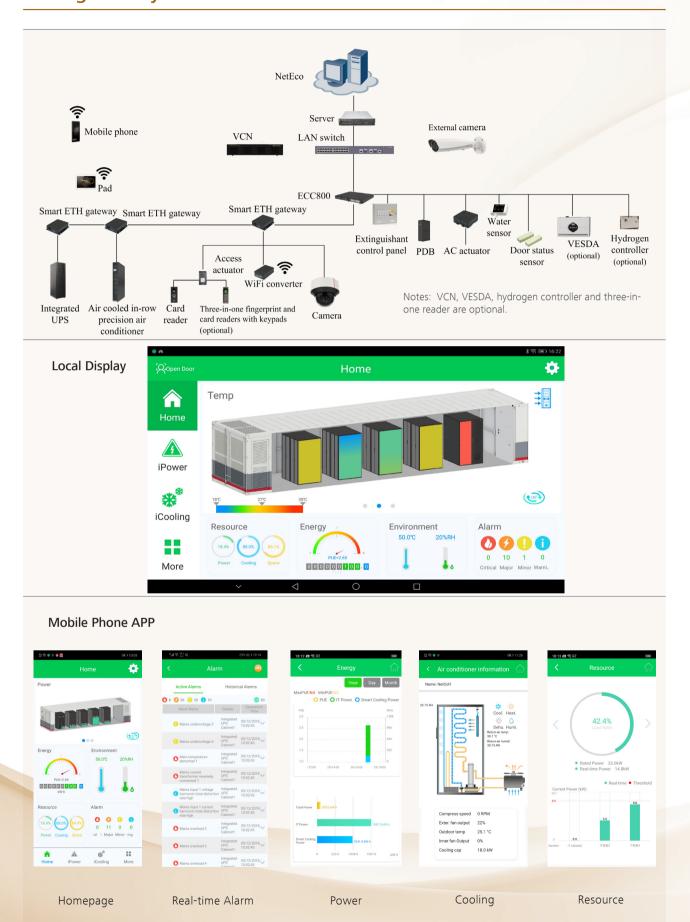
Layout

FusionModule1000A-40ft-IT-2N





Managment System



Specifications

System	Sub-item	FusionModule1000A 40ft-IT-2N-208V ²
Power	Total IT load	≤ 42kW
	Power density per rack	≤ 6kW
	Input mode	3Ph+N+PE, 208V /220V /230V AC, 60Hz
	UPS model	Integrated modular UPS(with integrated MCCB)
	UPS capacity	60kVA
	Number of UPS power module	3
	BAT backup time	10min
	Basic rPDU	Standard
	Surge protection	Level-2, maximum 60kA 8/20us
Rack	Rack capacity	7 × 42U IT rack
	Rack distribution	7 × 6kW/rack
	Size (H \times W \times D) mm	600 × 1100 × 2000 600 × 1200 × 2000
Cooling	Technology	Air-cooled in-row
	Sensible cooling capacity	21kW/unit(3+1 redundancy)
	Coolant	R410A
	Fan type	EC fan
	Compressor	DC variable-frequency
	Group control	Support
	Temp. range	18~27°C
	Humidity range	20%~80%
	Hot/cold aisle	Hot aisle containment
	Humidification	Electrode humidifier
Fire protection	Auto fire protection system	Automatic fire detection & suppression system c/w emergency release function
	Alarm	Automatic monitoring and detection, support sound and light alarm
	Gas	Standard HFC-227ea

System	Sub-item	FusionModule1000A 40ft-IT-2N-208V ²
Monitoring	Module access	IC card reader as default optional three-in-one access control
	Rack access	$Customization^{\oplus}$
	Monitoring management	Real-time monitoring of temperature and humidity control, fire control, access control and cooling system
	In-module display	PAD
	Remote O&M	Арр
Management	DCIM	NetEco
	t Server	Pre-installed
	Lan switch	Pre-installed
Enclosure	External size $(H \times W \times D)$ mm	2896 × 2438 × 12192
	Aisle width	cold aisle of 1150mm; hot aisle can be extended to 610mm;
Protection	Dustproof and waterproof	IP55 (optional IP65)
	Anti-seismic	GR-63-CORE Zone3
	Anti-theft	Meet requirements of EN 1627~EN 1630 Class 3
Operating Environment	Operating humidity (RH)	5%~95%
	Operating temp	-20°C~+45°C
	Altitude [®]	≤ 4000m

- ①: Customerized access control will cause changes to U space and monitoring solution.
- 2 : 2N refers to redundancy level of power system.
- $\ensuremath{\mathfrak{J}}$: Power derating is required when the altitude is over 1000m. Details refer to the Product Overview

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