

GT-CD Series Containerized Data Center

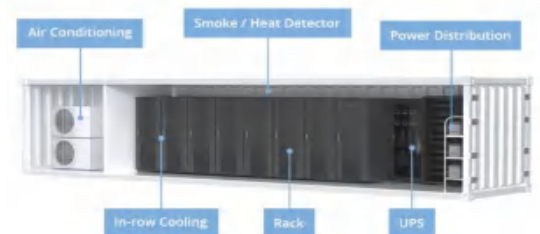
Introduction

The GT-CD series containerized data center adopts an integrated design with factory prefabrication. It integrates power distribution systems, cooling systems, cabinet systems, enclosed aisle systems, monitoring systems, and fire suppression systems within a single container, forming a self-contained operational unit. Managed by a unified monitoring and management system, it meets the demand for rapid deployment and agile delivery of outdoor data center infrastructure.



Application

Large data centers and campus data centers, Banking, Financial and Insurance, Education, Healthcare, Manufacturing, Retail and Wholesale, Transportation.



Features

- **Portability & Durability**
Factory-prefabricated for flexible transport and lower costs than traditional data centers.
Dustproof, waterproof, and shock-resistant container design adapts to harsh environments.
- **Rapid Deployment**
Pre-installed and tested for plug-and-play operation.
On-site setup completes in 2 – 3 months with utility connections.
- **Energy Efficiency**
In-row cooling systems optimize airflow, reduce PUE, and cut operational costs by matching power/cooling to workload.
- **Scalability**
Modular architecture enables effortless expansion to meet evolving IT demands.
- **Fast Delivery**
Factory-tested modules minimize on-site configuration.
- **Flexible Mobility**
Containerized design enables easy relocation and reuse.

Unit		40ft layout All-In-One solution	20ft layout All-In-One solution
Cabinet System	Size of IT cabinet (WxDxH)mm	600*1200*2000	600*1200*2000
	Num. of IT cabinet (pcs)	10	4
	Power of each cabinet (kW)	6/9(High density)	6/9(High density)
	Total power(kW)	60/90(High density)	24/36(High density)
Power and Distribution	Power supply system	400A input, single or dual feed; 380/400/415V, 50/60Hz, 3Ph+N+PE; Input surge protection: 8/20 μ s waveform, In = 20kA, I _{max} = 40kA	160A input, single or dual feed; 380/400/415V, 50/60Hz, 3Ph+N+PE; Input surge protection: 8/20 μ s, In = 20kA, I _{max} = 40kA
System	UPS	150kVA	90kVA
	Battery back-up time	In-row battery cabinet, the number of battery and capacity can be selected according to project requirements	
	PDU	16-port CN Standard PDU (10A*12+16A*4), 32A; 16-port Standard IEC PDU (10A*12+16A*4), 32A	
Cooling System	Cooling method	Default: 25/30kW air-cooled half-rack in-row variable frequency AC; Optional: 40/50/60kW air-cooled in-row variable frequency AC	
	Contained Aisle	Cold/Hot Aisle Containment	
Monitoring System	Power and environment system	Monitoring host can realize the centralized monitoring of integrated power distribution cabinet, UPS, air conditioning, access control, video, fire, etc., and support sound and light, telephone, WeChat, SMS, e-mail multiple alarm methods	
	Access control	Support IC card + password + fingerprint three-in-one access control system, optional face recognition	
	Local Display	Support 10.1 inch touch screen, support local touch screen, client, remote Web, mobile app and other display methods	
Fire Prevention System	Fire extinguishing system	Automatic flooding fire extinguishing system, cold/hot aisles are equipped with smoke and temperature sensor, automatic control of fire gas release, support for sound and light, gas release indicator and other warning methods, support for manual emergency opening of the fire extinguishing system (optional Pipe fire extinguishers)	
	Fire extinguishing gas	FM200/HFC-227ea (Novec 1230 optional)	
Container Structure	Container size	40ft	20ft
	Weight of container(T)	10	5
	Container load-bearing(T)	15	20
	Aisle System (mm)	Cold aisle width: 900mm; Hot aisle width: 600mm	
	Container protection	Waterproof, dustproof, anti-mold, protection grade:IP55	
Operation Environment	Ambient temperature($^{\circ}$ C)	-40~50 $^{\circ}$ C(-20 $^{\circ}$ C below require optional low temperature components and water pipes need todo insulation treatment)	
	Altitude(m)	More than 1000m need to be derated	

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