



MOBILE CONTAINER DATA CENTER SOLUTIONS



MOBILE CONTAINER

DATA CENTER SOLUTIONS



The mobile container data center provides a protected housing for the server cabinets, power distribution system, high precision air conditioning system, UPS system with backup banks, monitoring system, fire control system, and CCTV system.

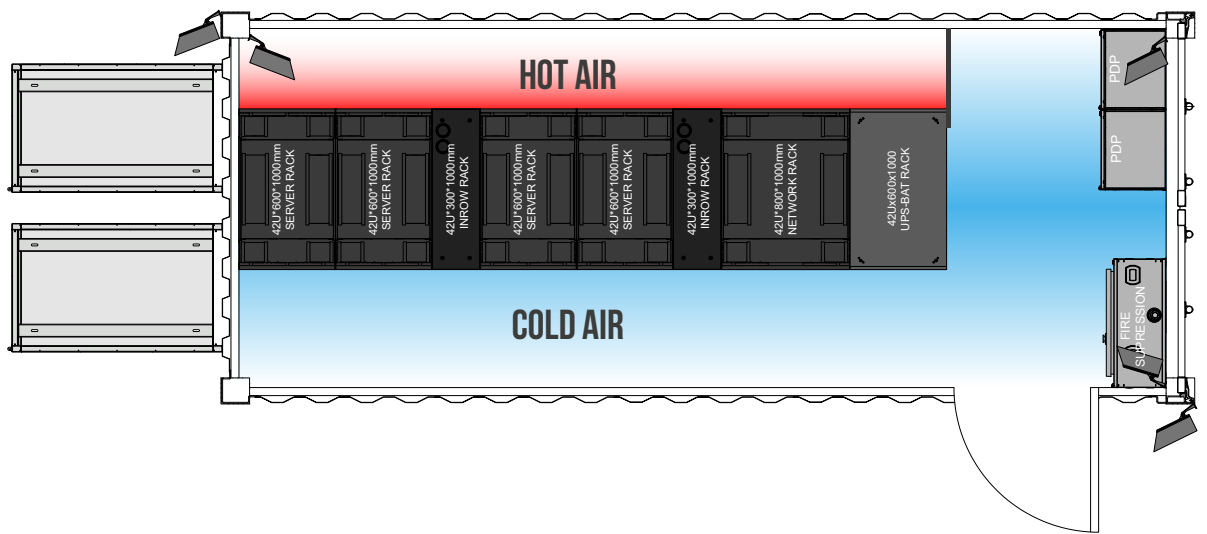
The container data center provides the following functions:

- Houses the container components which can be interconnected inside in a centralized manner.
- Provides a secured environment to protect the container from external impact
- Modularity based on future expansion and capacity extension
- Quick deployment advantage against traditional building data center
- As pre-assembled, configured and factory tested solution before delivery

MOBILE DATA CENTER CONFIGURATIONS

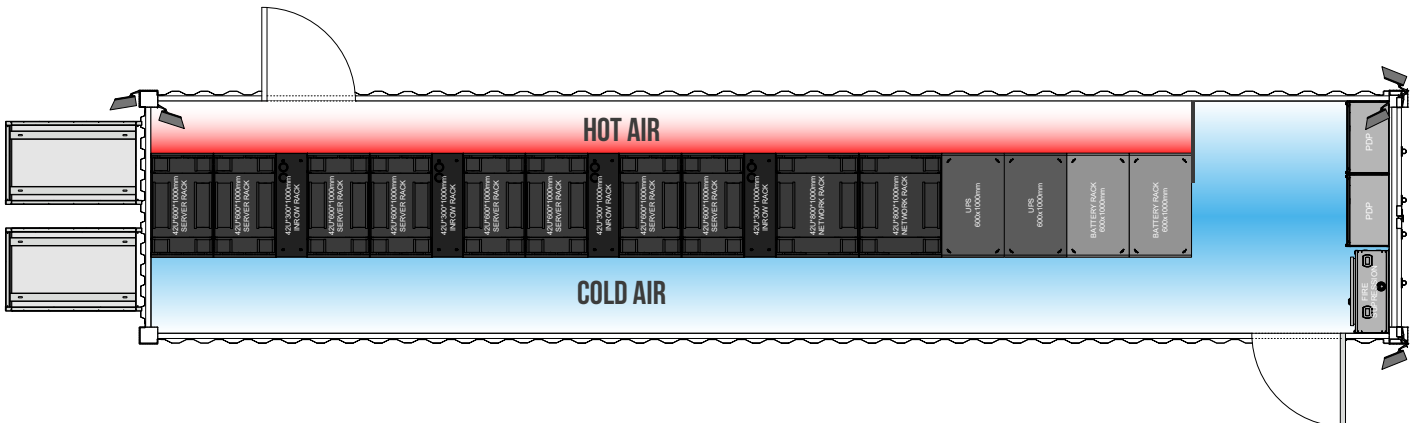
- 6058*2438*2591mm
- 5 Rack Cabinets
- N+1 Cooling Redundancy
- 2N Power Redundancy
- 30kW IT Load Limit

**20 FT
LENGTH**



- 12192*2438*2896mm
- 10 Rack Cabinets
- N+1 Cooling Redundancy
- 2N Power Redundancy
- 90kW IT Load Limit

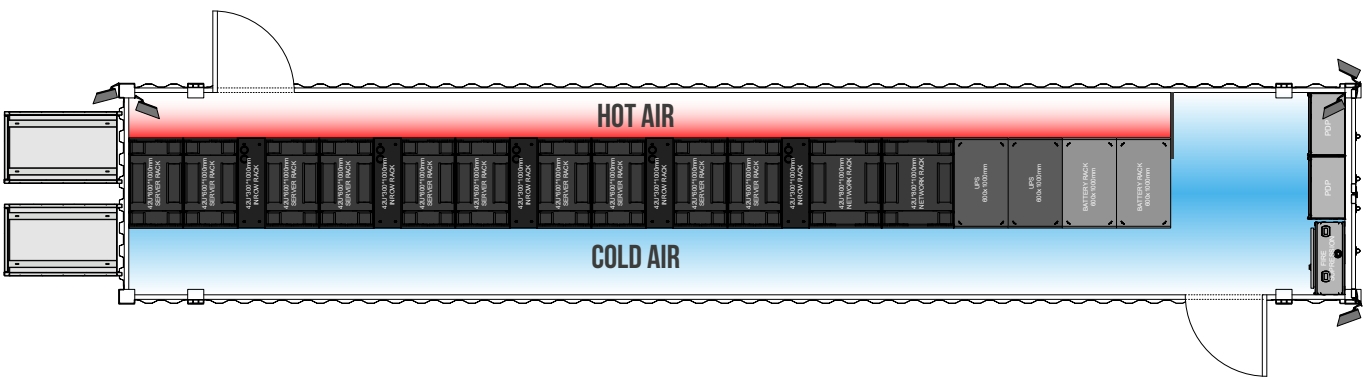
**40 FT
LENGTH**



MOBILE DATA CENTER CONFIGURATIONS

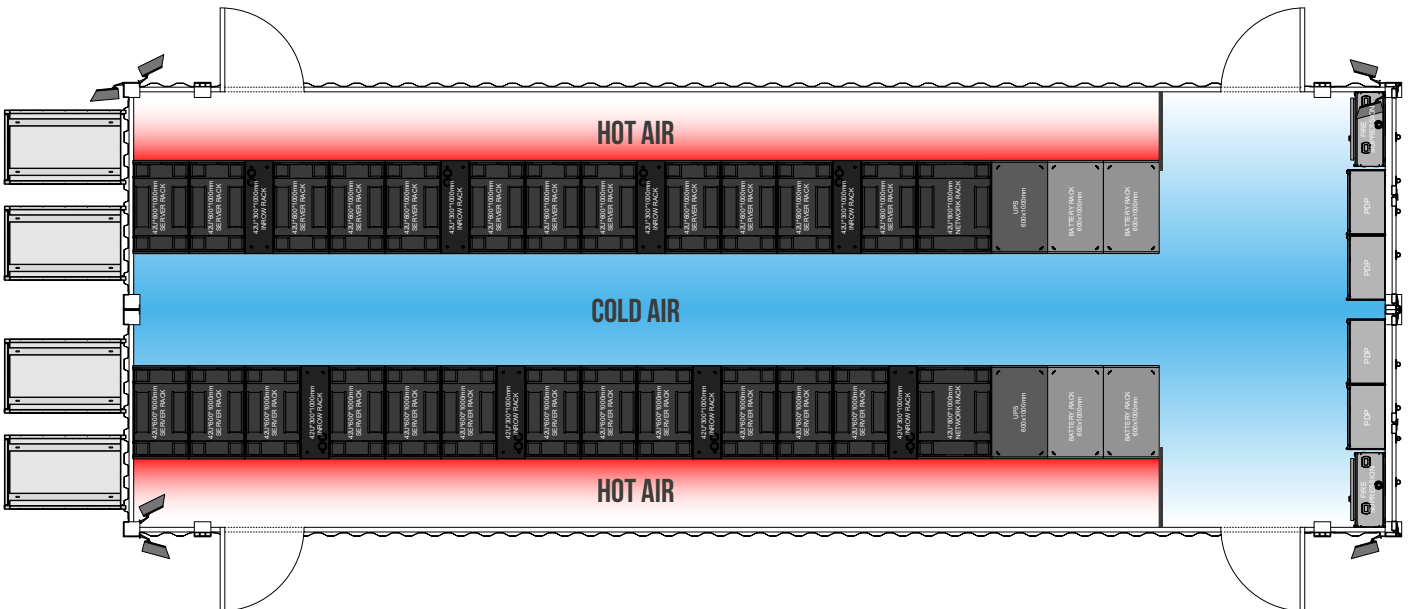
45 FT LENGTH

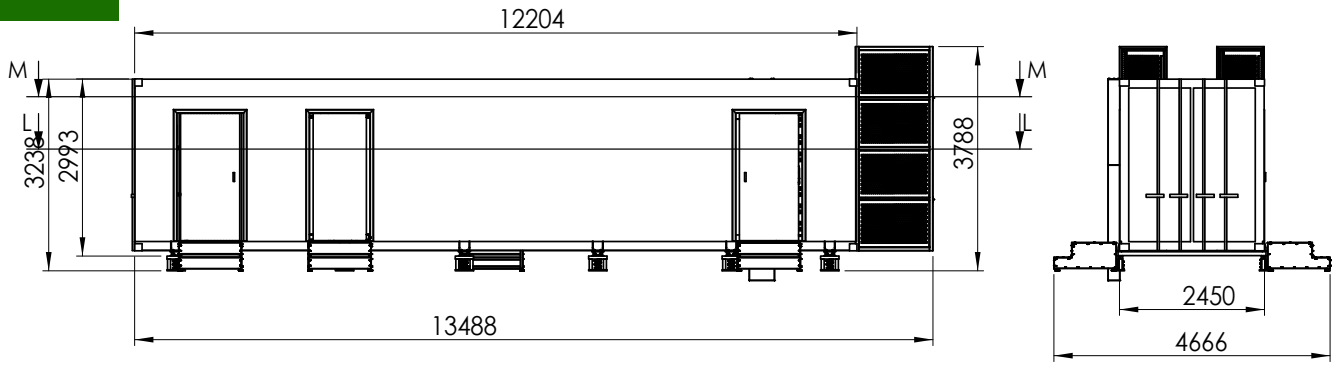
- 13716*2438*2896mm
- 12 Rack Cabinets
- N+1 Cooling Redundancy
- 2N Power Redundancy
- 120kW IT Load Limit



2X45 FT LENGTH

- 13716*4876*2896
- 26 Rack Cabinets
- N+1 Cooling Redundancy
- 2N Power Redundancy
- 210kW IT Load Limit





Frog Engineering Mobile Data Center Series					
	Configurations	FE-CONT-20-XX	FE-CONT-40-XX	FE-CONT-45-XX	FE-CONT-DBL45-XX
Container Specifications	Model	20ft	40ft	45ft	2*45ft
	"Dimensions L*W*H (mm)"	6058*2438*2591	12192*2438*2896	13716*2438*2896	13716*4876*2896
	Container Weight - Loaded (T)	5	12	15	28
	Container Type	Standard ISO Container			
	Environmental Protection	IP55, Water-proof, Dust-proof			
	Material	Trapezoidal steel sheet, 50mm Rack-wool insulation plates(Class-A1)			
	Min/Max Operating Range (°C)	-20 to +50 (min -40°C as optional)			
	Altitude (m) ¹	1000			
Service Life	25 years				
Rack Cabinet System	"IT Rack Sizes W*D*H (mm)"	600*1000*2000 (Server Rack) + 800*1000*2000 (Network Rack)			
	Quantity of Racks	4+1	8+2	10+2	24+2
	Total IT Load (kW)	30	90	120	210
Air Conditioning System	Cooling Type ²	DX Based Inrow Cooling Units			
	Sensible Cooling Capacity per Inrow (kW) ³	32			
	Inrow Cooling Unit Quantity	2	4	5	8
	Redundancy Level	N+1			
	Environmental Operating Range (°C)	-20~+50			
Power Management System	Modular UPS Frame (kVA)	30	120	150	250
	Backup Time (minutes)	Standard 10 mins (additional backup as optional)			
	Power Distribution Unit	Monitored/Managable IP-PDU (20*C13+4*C19)			
	Redundancy Level	N+N			
Management System	Environmental Sensors	Temperature&Humidity, Smoke, Water, Door Contact, Vibration as default			
	Data Center Infrastructure Management (DCIM)	Advance management software which shows real time monitoring for whole container environment including all electrical components inside the data center area			
	Access Control	Fingerprint access controllers on main entrance door and sliding doors between cold-hot areas inside the container			
Video Surveillance System	Cameras	Bullet/Dome Type IP Cam, IP66, PoE, ONVIF			
	Video Record	8 Channel NVR, 6TB HDD			
Fire Control System	Detection and Extinguishing	Point-based fire extinguishing with fully automatic detection using HAFEX system			
	Type	Aerosol based on Strontium Nitrate salts. Non-pressurized. 15 years maintenance free.			
	Fire resistancy	F60 (Highly Fire Retardant)			

¹ Power and cooling derating is expected for more than 1000m altitude. Contact to technical department for more details.

² Air conditioning can be provided by CW based systems, CRAC/CRAH units, and even indirect evaporative systems as optionally

³ Each Inrow cooling unit provides 32kW sensible cooling capacity while Treturn is 35°C and Tambient is 35°C

MOBILE DATA CENTER

EXTERIOR PAINTING SAMPLES



40 FT MOBILE DATA CENTER COMPONENTS

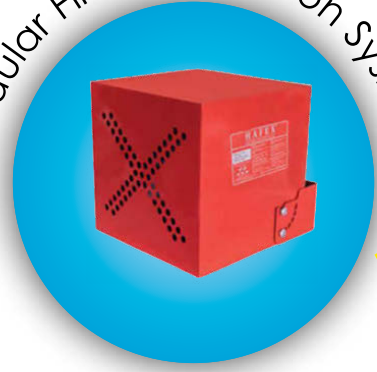
Modular UPS



Movable Cable Duct



Modular Fire Suppression System



19" Rack Cabinet



Power Distribution Panel



Outdoor Cooling Unit



Inrow Cooling

