



FDC-MI2540 : Modular Flex Data Center



FDC-MI2540 Modular Flex Data Center

Quick integration, lower cost and superior energy performance : **Mobile Data Center Solutions**

Introduction

FDC-MI2540 Modular Flex Data Center Solutions is the complete solution design and production performed by TLC that consists of air conditioning, lighting, fire protection systems, uninterruptible power supply and the cabinets.

They are modular solution that can be upgraded by joining them together each other and they can be moved to different locations if needed.



Application Scenarios

- IT load \leq 240kW
- Fast deployment and movable scenarios



Features & Value

- Prefabricated and pre-tested
- Modular structure realizes fast and on-demand deployment
- A prefabricated solution, deploy time shortened
- ISO shipping container dimensions and transportation cost reduced
- High energy efficiency, PUE down to 1.2
- IP55 external protection level
- Operable from -16°C to +45°C
- Comply with UPTIME TIER and TIA942 topology

Modules

FDC-MI2540E / ENTRY IT Module



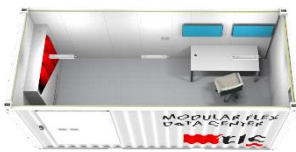
- Dimension (H × W × D) - 2896 mm × 2438 mm × 12192 mm
- Weight 16t
- Power 3-phase-4-line+PE AC 380V
- Cabinet quantity 12 racks
- Operation temperature -16°C ~ +45°C

FDC-MI2540A / EXPANDER IT Module



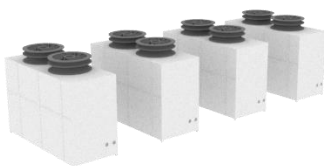
- Dimension (H × W × D) - 2896 mm × 2438 mm × 12192 mm
- Weight 16t
- Power 3-phase-4-line+PE AC 380V
- Cabinet quantity 12 racks
- Operation temperature -16°C ~ +45°C

FDC-MI2540NOC / NOC Module



- Dimension (H × W × D) - 2896 mm × 2438 mm × 6058 mm
- Weight 10t
- Power 3-phase-4-line+PE AC 380V
- Operation temperature -16°C ~ +45°C

COOLING Chillers

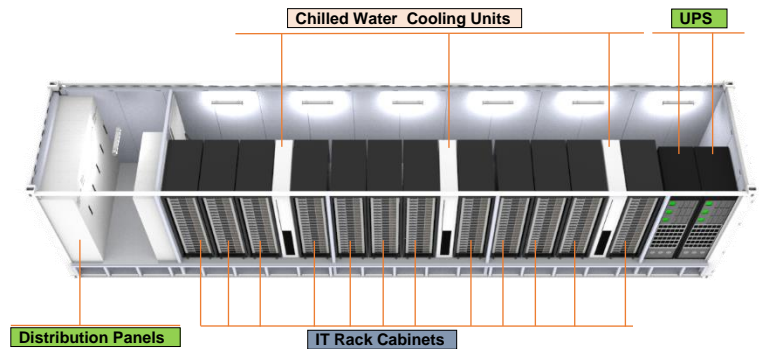


- Dimension (H × W × D) - 1902 mm × 3043 mm × 1201 mm
- Weight 918kg
- Operation temperature -16°C ~ +45°C
- Chiller 4 sets of air-cooled scroll chiller (N+1 backup)
- Cooling Capacity 80.8kW

Specifications

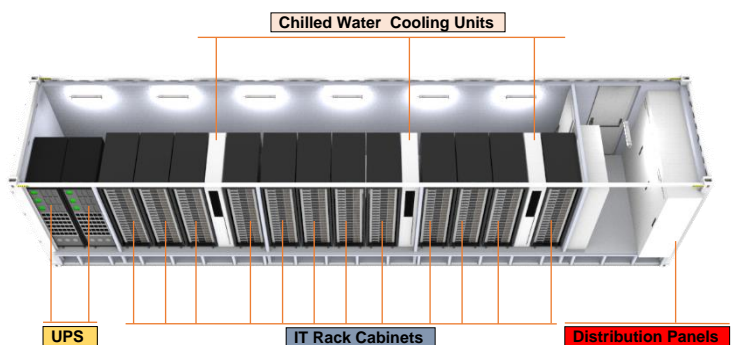
FDC-MI2540E / ENTRY IT Container

IT Rack Cabinets : 12 pieces
 PDU : 24 pieces
 InRow Cooling Units : 3 pieces
 Power Distribution Boards
 Raised Floor : 300mm
 Busbar
 Energy Cable Tray
 Data Cable Tray
 Fiber Cable Duct
 Insulation Panel



FDC-MI2540A / EXPANDER IT Container

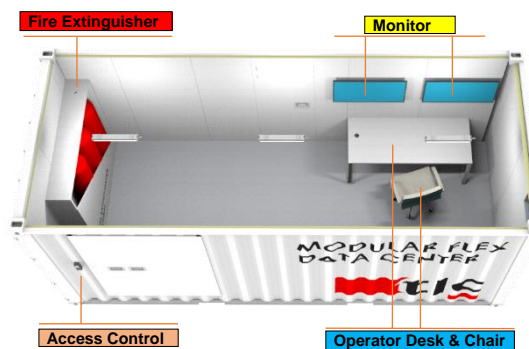
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Specifications

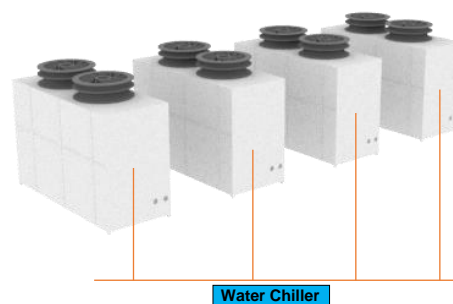
FDC-MI2540NOC / NOC Container

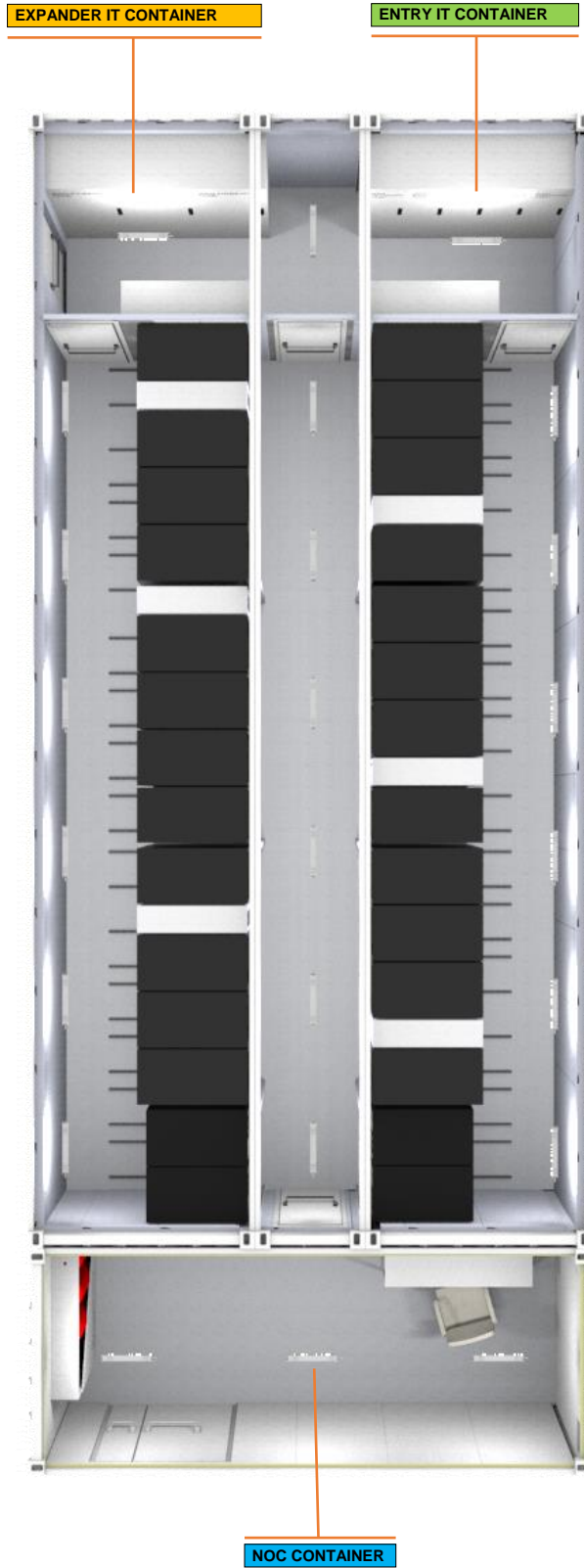
- Fire Extinguishing System
- Power Distribution Boards
- Raised Floor : 300mm
- Energy Cable Tray
- Insulation Panel
- Operator Desk&Chair



COOLING Chillers

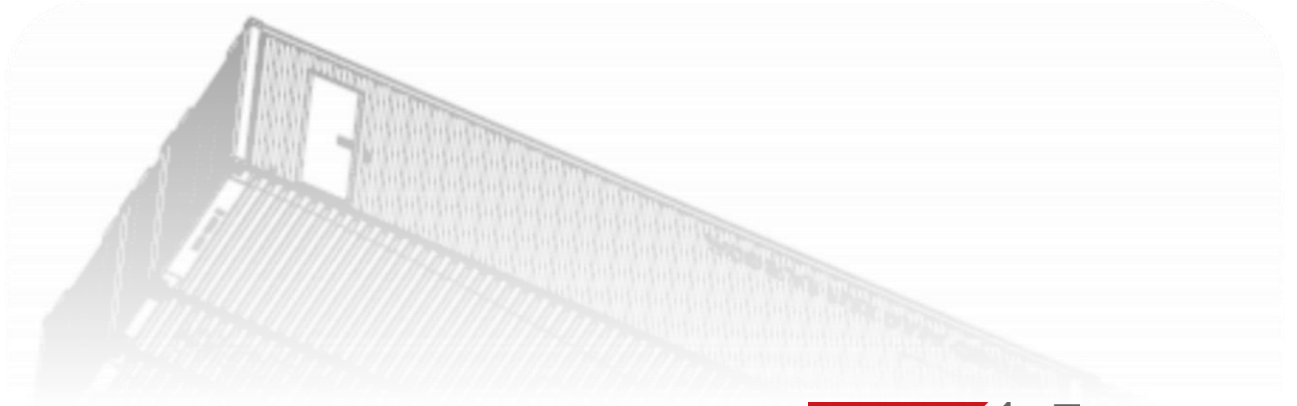
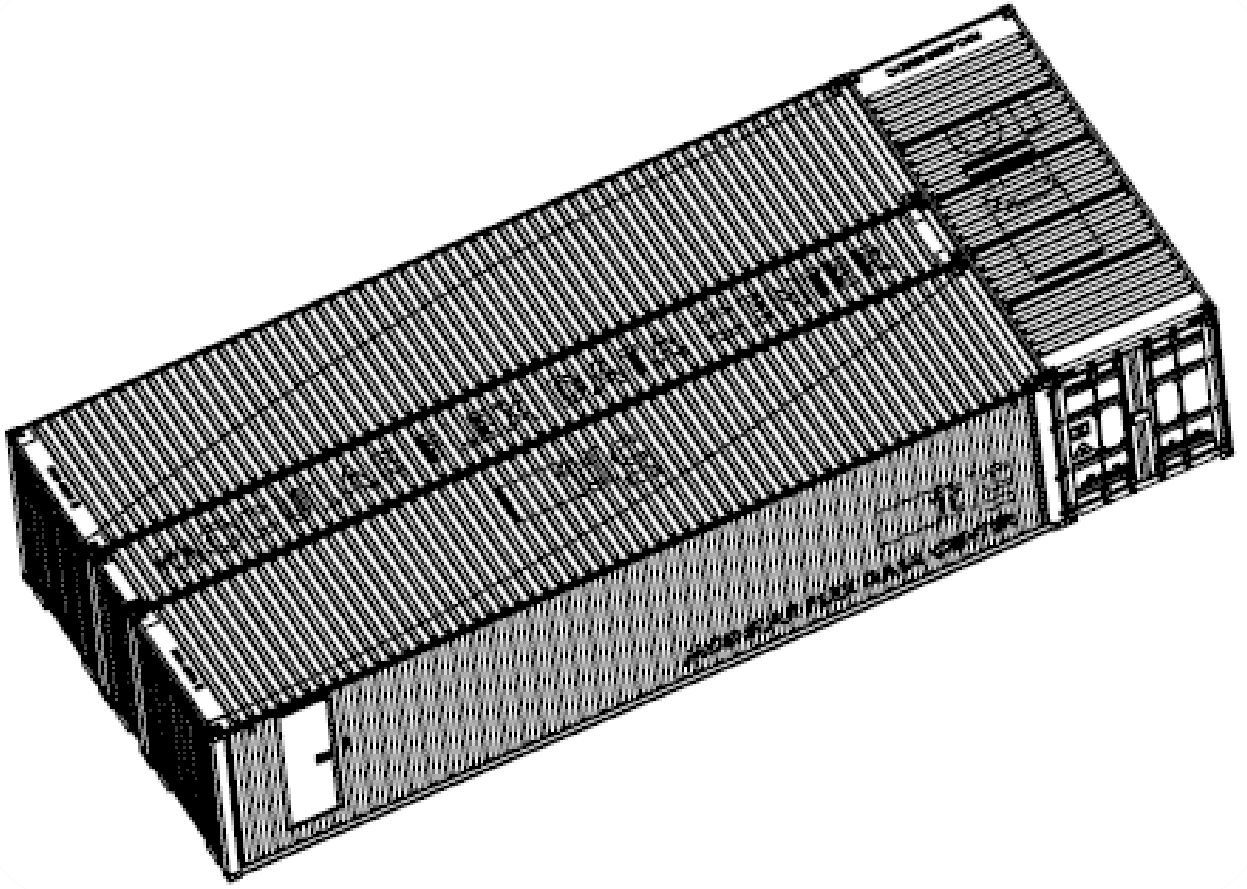
- Power Distribution System for Chillers
- Chillers





Technical Specifications

Specification	FDC-MI2540 Modular Flex Data Center
Model	FDC-MI2540 / 10kW
Outer Length	14.630 mm
Outer Width	6.058 mm
Outer Height	2896 mm
Standard ISO Dimension	Yes
Insulation	B Class Fire protection, 142 kg/m3 Rockwool density
Cold Corridor Containment	Yes
Uninterruptible Power Supply	90+90+90+90kW Power, 5 min backup time
Uninterruptible Power Supply Redundancy	Yes, Modular Redundancy (N+1)
IT Equipment Electrical Load Limit	240 kW
Max Power per Enclosure	10 kW
Input Power	380 V 3-Phase, 50Hz
Voltage to Enclosure	220V
Cooling Technology	Chilled Water Cooling
Cooling Capacity	180 kW
Cooling Technology Redundancy	Yes (N+1)
Server Cabinet	19' 600x1200mm Industry Standard Cabinet
Max. Number Server Cabinet	24
Available RU Space per Rack	42 U
Total Rack Space	1.008 U
Smoke Dedection (Active / Passive)	Yes
Fire Suppression System	Yes
Humidity and Temperature Sensor	Yes
Humidifire	Yes
Monitoring System	Yes
DCIM	Yes
Security	Biometric Access Control and IP Camera



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