

PowerEdge

MODULAR DATA CENTER



Who We Are?

Deckro is the first-class cabinet and accessories solution designed, manufactured, supported and delivered by industry experts. Deckro is managed by a team of industry experts, using the latest innovation and production capabilities to exceed industry standards for quality and performance, technical compatibility, installation and ease of use, and supports these with design, manufacturing, quality and shipping solutions.



At every stage of the production, workstation and assembly lines; production is carried out with the latest technology machines and high quality labour force, CNC and Robot, Laser technology is used, which ensures the highest precision and quality.



Paint and surface treatment facilities are fully automated and have the highest level of process quality. 6.000m2. closed area and 10.000m2. open area production is carried out and ISO9001 quality and lean production application is carried out at every stage of production.



In Eskişehir factory, a total of 140 employees, 6 engineers in the Method team, 2 engineers in the Planning team, 4 quality controllers, 4 R&D employees, subcontractors and suppliers and nearly 1000 people directly / indirectly contribute to production with DECKRO standards, vision and mission



PowerEdge Modular Data Center



Feature:

PowerEdge MDC offers a modular approach to data center infrastructure that minimizes site requirements. Backup power, power distribution, cooling security and fire suppression are housed inside the unit, while 100% of the rack space is left open for IT components. It is available in three- to eight-enclosure configurations and in a range of power and cooling capacity options. The PowerEdge mini/midi data center is a flexible solution that can scale to meet changing requirements.

Value:

- Substantially faster and less expensive than traditional data center buildouts.
- 100% ROI within 12 months of deployment
- Flexible, efficient to operate and easy to manage.
- Can use the building's existing power infrastructure
- Enables the use of best-in-class cooling and UPS technologies
- Built-in fire suppression systems for compliance
- Safety glass and metal containment for fire hazard safety
- 100% IT usable space with zero infrastructure overhead.
- Modular structure,
- Fast assembly and disassembly
- Easy transport and installation

Easy Installation:

The PowerEdge MDC can be installed anywhere, including the top floor on a high-rise building. Components are able to be shipped separately and installed on-site within one day.

Monitoring:

Integrated environmental monitoring provides proactive alerts on temperature, humidity, airflow and equipment sub-performance.

Integrated Cable Management:

Pre-integrated copper and fiber patch panels allow for efficient cabling and easy upgrades from 10G to 100G architectures. Space-saving cable lengths that are pre-terminated to the exact requirements eliminate the need to install expensive ladder racks and basket trays, resulting in lower labor costs.

Simplified Power Distribution:

While other products require expensive busway systems, the PowerEdge MDC can tap into the building's existing power infrastructure while still providing backup power capabilities.

PowerEdge MDC vs. Traditional DC

Content	PowerEdge MDC	Traditional Data Center
System Integration	High The manufacturer has completed installation and commissioning	Low System integrator on-site commissioning
Construction Period	Short	Long
Green Energy Saving	Use air supply within cabinets or between rows to shorten the air supply and return distance	Room level, energy waste
Intelligency	High Can be monitored locally or remotely	Low Not many monitorable parameters
Investment Cost	Low	High
Space	Small	Big
Extensibility	Strong Can be expanded by channel	Weak Requires a large initial investment, consider sufficient UPS, air conditioning capacity
Operation and Maintenance Management	Remote viewing	Local patrol point



Product Matrix

1 RACK

- 42U
- 44U
- 47U
- 52U

2 CABLE MANAGEMENT

- CABLE MANAGEMENT
- GROUNDING

10 LIGHTING

- WORKING LIGHTING
- WARNING LIGHTING

3 INTERFACE

- WEB
- TERMINAL DISPLAY

9 UPS

- UPS
- BATTERY

4 DCIM

- MONITORING
- MANAGEMENT

8 COOLING

- RACK MOUNT
- IN-ROW

5 SECURITY

- ELECTRONIC LOCK
- CAMERA

7 FIRE

- FM200
- NOVEC

6 POWER DISTRIBUTION

- POWER DISTRIBUTION
- INTELLIGENT PDU



Configurations

PowerEdge 3 (3 Cabinets)



Equipment area: 2.8 square meters
Minimum room area: about 17 square meters.

PowerEdge 4 (4 Cabinets)



Equipment area: 4.2 square meters
Minimum room area: about 20 square meters.

Configurations

PowerEdge 5 (5 Cabinets)



Equipment area: 5.32 square meters
Minimum room area: about 23 square meters.

PowerEdge 6 (6 Cabinets)



Equipment area: 6.16 square meters
Minimum room area: about 28 square meters.

Configurations

PowerEdge 7 (7 Cabinets)



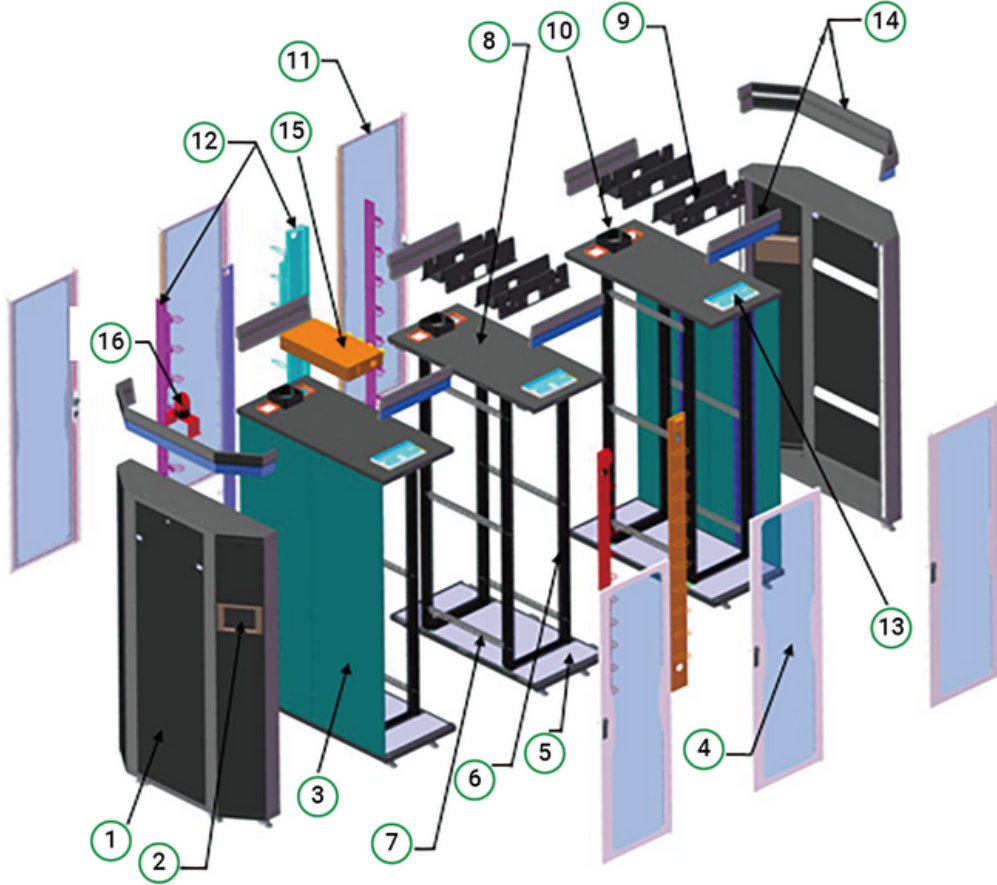
Equipment area: 7.28 square meters
Minimum room area: about 34 square meters.

DECKRO

complete,
secure &
smart.

Configurations

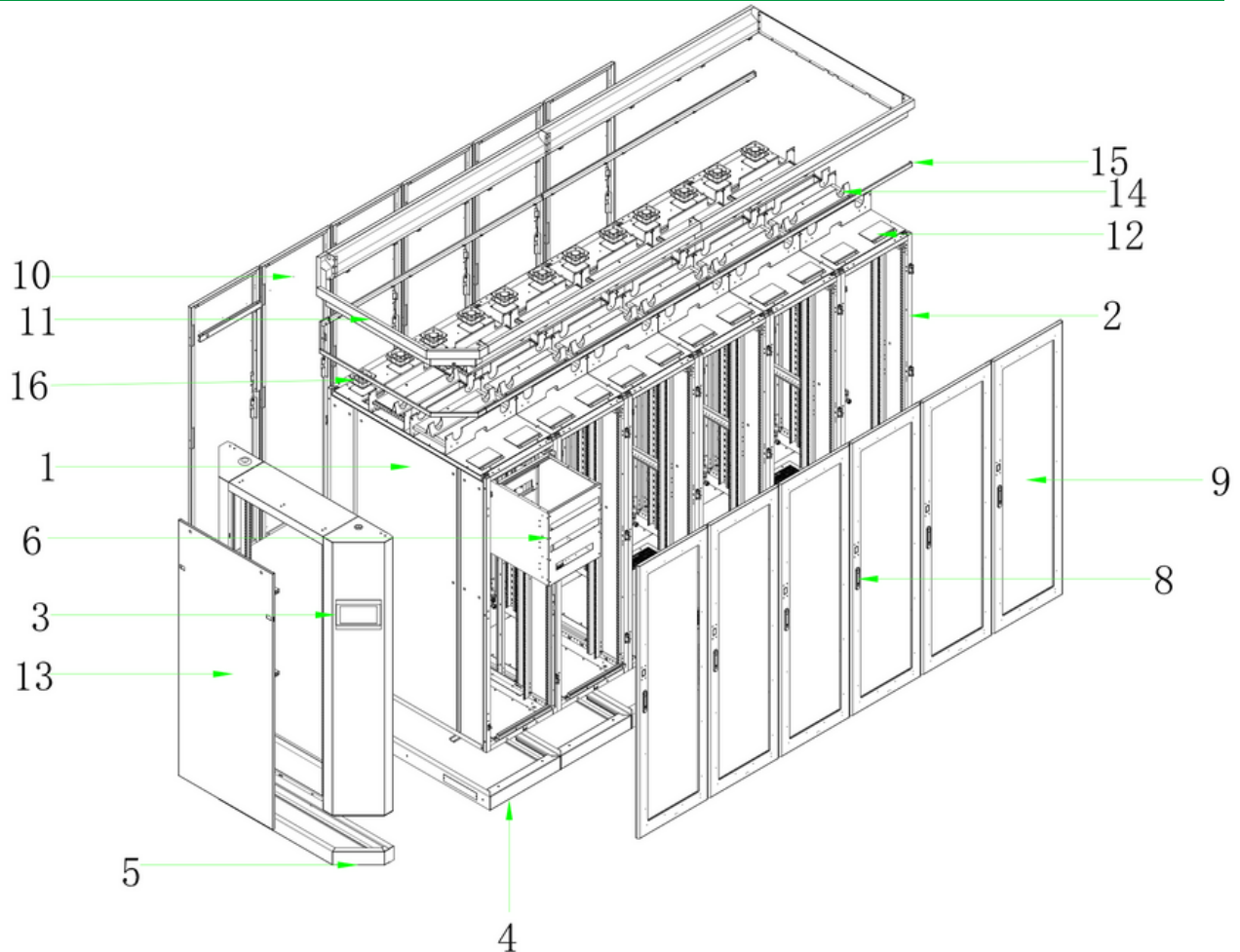
Exploded View



No	Name	Qty (Pcs)	No	Name	Qty (Pcs)
1	Control Box	1	9	M-Type Trough	2/ Single cabinet
2	Touch Screen	1	10	Emergency Exhaust Fan	1/ Single cabinet
3	Side Door	2	11	Fireproof Glass Back Door	1/ Single cabinet
4	Fireproof Glass Front Door	1/ Single cabinet	12	Multi-function Board	2/ Single cabinet
5	Base Plate	1/ Single cabinet	13	Flap Skylight	1/ Single cabinet
6	Frame	2/ Single cabinet	14	Top Decorative Panels	2/ Single cabinet
7	Beam	6/ Single cabinet	15	Pre-assembled Connector Box	1
8	Crown Sheet	1/ Single cabinet	16	Sound and Light Warning Lights	1

Components

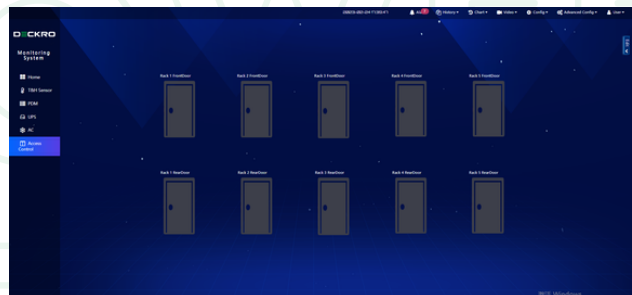
Detailed Drawing



No	Name	No	Name
1	Intelligent Cabinet Enclosure	12	Brush
2	IT Cabinet	13	Side Panel
3	Monitoring Screen	14	Cable Tray
4	Plinth	15	Trim Bottom Panel
5	Edge Plinth	16	Exhaust Fans
6	PDM box	17	Air Cooling Unit
7	PAC	18	UPS
8	Door Access	19	Electronic Lock
9	Front Door	20	Fire Detection and Extinguishing
10	Rear Door	21	Lighting System
11	Trim Panel	22	Monitoring System

DCIM

For Remote Monitoring & Management



Application Scenarios:

Government System at all levels of government.

Education System Primary School, Secondary School, Municipal Education Bureau.

Power Grid C2 classroom, substation.

Financial System Bank branch outlets, small micro-branch outlets.

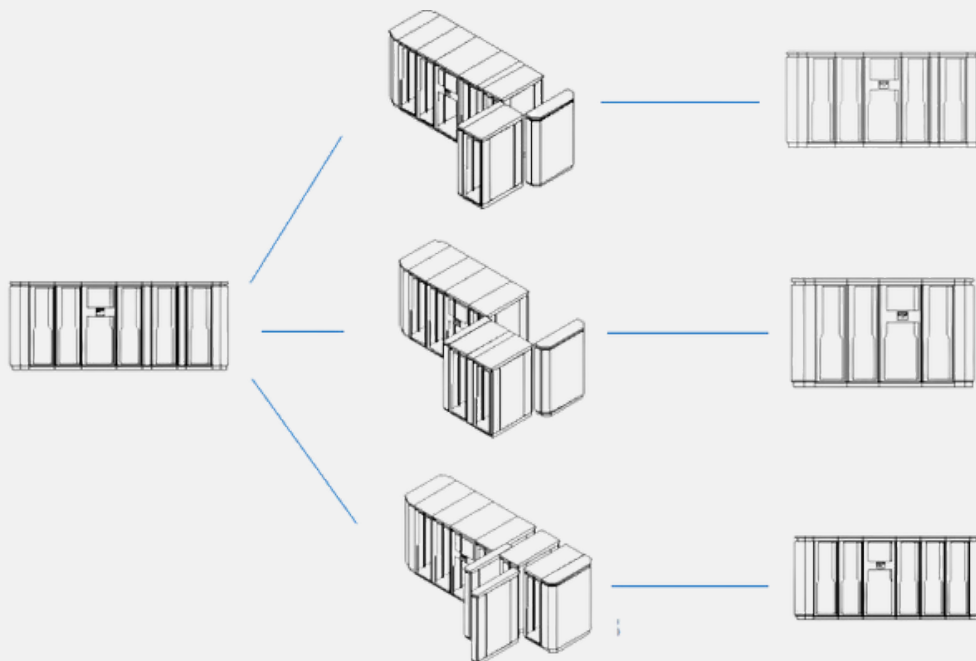
Public Security System county branch.

Small and Medium Enterprises and Institutions.

Retail Merchandising and Carrier Business Halls, etc.

No need special data center room, the enclosure can achieve IP55(Optional) to meet the different environment.

How to Expand The PowerEdge MDC System?



If capacity increase needed in the future;

- It is possible to increase the number of cabinets in the same row by considering sufficient capacity in the early stages of UPS and PDM design.
- It is also possible to reserve space to add a whole row of MDC.



Specifications

Function	Item	Configuration	Specifications
ENCLOSURE	Dimensions	Standard 42U Available 45, 47 or 52U	600/800*2000/2200*1200/1400 mm(W*H*D)
	Cabinet door	Poly-carbonate or steel	Poly-carbonate door: front and rear door thickness≥1.2 mm, side door thickness ≥1.5 mm
	Ground connection	Reserved for more than two ground points.	BVR6mm2
	Shelves(Optional)	Two pieces per cabinet	50Kg
	Cable management	Near the rear door	Vertical cable panel
COOLING SYSTEM	Air conditioner	Rack-mounted or In-row	Determine the air conditioning cooling capacity according to the equipment power
	Emergency exhaust	Draught fan	Air volume 239~288 CFM
	Drainage	A water supply pipe and a drain pipe, bottom installation	PPR hot melt pipe Flooding: DN25 Discharge: DN40
FIRE SUPPRESSION	FM200	Rack mount	Optional
	Alarm system	Local and remote	Local lights sound warning, sent to the monitoring room or the control center



Specifications

Function	Item	Configuration	Specifications
POWER SYSTEM	UPS	Rack Mounted	10kVA/15kVA/20kVA/25kVA/30kVA/40kVA
	Power backup	Standart steel	Standart steel sheet metal
	PDM	32A or 63A or 80A or 125A input	Specification : 410mm(W)*3U(H)*600mm(D)
			Configuration: electricity circuit, UPS circuit, Max 19P breaker
			Function: intelligent or non-intelligent
	PDU	IEC/GB	Air volume 239~288 CFM
Light	LED	Front and rear door install work lighting, controlled by the door or screen touch	
		DC12V power supply, power ≤ 6W	
MONITORING SYSTEM	Display Screen	10 inch touch screen	Optional
		Home A/C restart function	Optional
		SMS	Optional
		Remote mobile App	Optional
		Liquid sensor	Optional
		Temp&Hum sensor	Standard configuration
		Door magnetic switch	Standard configuration
		Smoke sensor	Standard configuration
		Web monitoring	Standard configuration
		Camera	Optional
Door Access	Fingerprint,swipe or password	Optional	
PACKAGING	Dimensions	Crate	734/934*2200/2400*1368/1568mm(W*H*D)
	Weight	Per cabinet	150-170 Kg (no battery pack)



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