



PREFABRICATED
AI DATA CENTER

QUBE - AI CLOUD

AI-Ready | Scalable
Fast to Deploy | Eco-Efficient.

Prefabricated AI data centers are modular solutions designed to support AI-driven workloads efficiently and sustainably. These centers are built off-site and delivered as ready-to-deploy units, offering several advantages over traditional data centers.

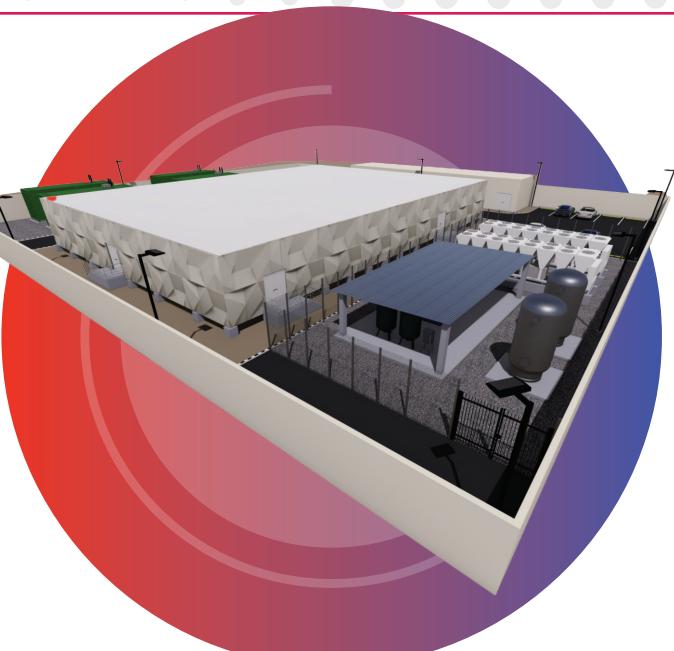
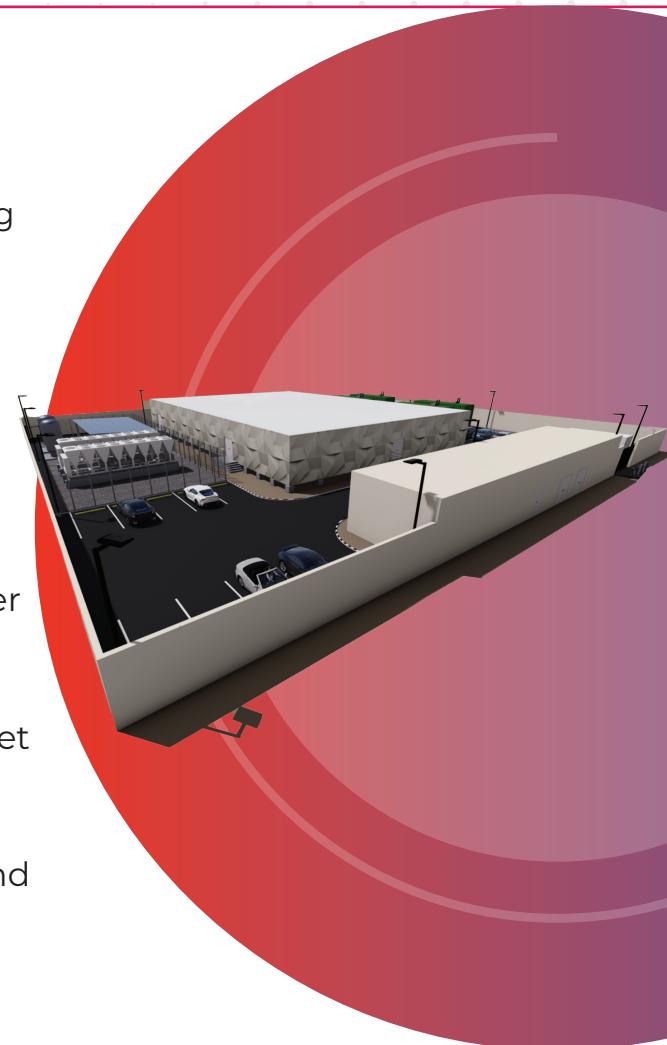
Modular data center that adopts the modular design, pre-integrated and pre-tested in factories, to minimize onsite workload, supports fast deploy, online upgrade and capacity expansion.

The solution is classified into five types based on functions: Data center module, MEP module, power module, hydraulic module and auxiliary module.

DCV strives to create business value for its customers through its broad range of services, including consultation, planning, design, engineering, implementation, maintenance, operation, monitoring and assessment.

Key Features

- **Rapid Deployment:** Prefabricated units can be installed quickly, reducing lead times and enabling faster project completion.
- **Scalability:** Modular designs allow for easy expansion to meet growing AI processing demands.
- **Energy Efficiency:** Integrated cooling systems and optimized power management ensure lower energy consumption.
- **Customizability:** Tailored configurations to meet specific AI workload requirements.
- **Sustainability:** Reduced construction waste and lower carbon footprint compared to traditional builds.



Applications

- **Ai Research:** High-performance computing for machine learning and deep learning tasks.
- **Edge Computing:** Supporting real-time data processing closer to the source.
- **Cloud Integration:** Seamless connectivity with cloud platforms for hybrid solutions.

“QUBE-FAB” SOLUTION OFFERS FIVE TYPES OF MODULES BASED ON THE APPLICATIONS:

IT Module: Factory-made units assembled on-site to create data halls of various sizes.

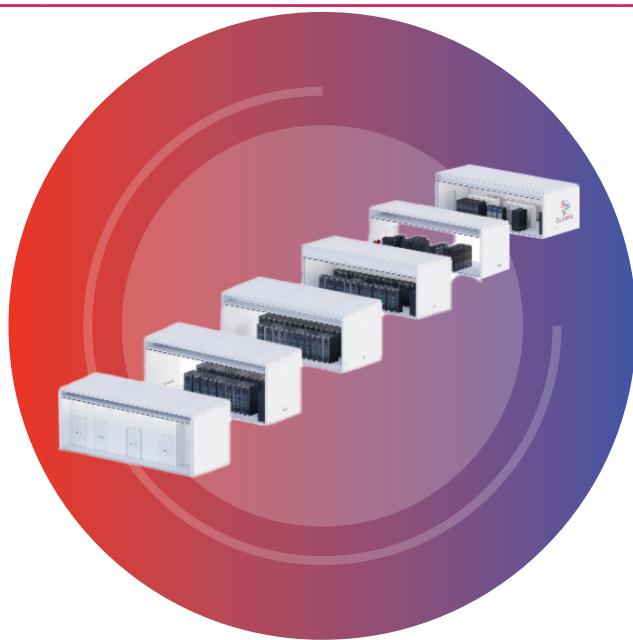
- Each Module is **28-40 SqM**. Joined to form Data halls of desired size to accommodate **20-200+** Racks

- Each Module accommodates **9-14 Racks 5-15KW** per rack

- Supported Cabinet Dimension (mm):

600/800(W) x 1000/1100/1200(D) x 2000/2200(H)

- Floor – With/Without Raised Floor



Power Module: Prefabricated with UPS, batteries, switchgears, monitoring, fire suppression, and control systems. Easily connects to the IT module on-site for a fully integrated hall.

- Supported equipment: UPSs, batteries, Power Distribution, etc.

- LV Switchgear and control Panels

- Pre-installed control and monitoring panels with tap-points for on-site connection.



Aux Module: Factory-built for multipurpose use, pre-fitted with interiors, and easily connects on-site to other modules for an integrated building.

- Aux Modules comprise of office space, Reception, MMRs, Meeting Rooms, NOC, Corridor, Washroom, etc.



Product Specification	DCV-850KW QUBE AI ^{CLOUD}	DCV-1500KW QUBE AI ^{CLOUD}	DCV-1700KW QUBE AI ^{CLOUD}
Site Environment	Outdoor / Desert / Warehouse		
Product Type	Container Prefab Modular Datacenter		
Tier Rating	TIER III		
Data Hall	~182 m2 – 220m2		
Server Type	Super Micro/Dell	Super Micro/Dell	Super Micro/Dell
GPU/ Server	8 GPUs	8 GPUs	8 GPUs
Total GPU	1024	1008-1024	1008-1024
GPU Type	AMD Mi210	H200	B200
IT Power Load	1000KW	1500KW	1700KW
No. of Racks	50 (800x1200X42U) (Each POD)		
Rack Power Density KW/Rack	Avg. 20KW (Max 30KW) (Server Rack)	Avg. 49KW (Server Rack)	Avg. 52KW (Server Rack)
UPS	N+N	N+N	N+N
Cooling Type	Inrow-CW (N+1)	RDHX-CW (Rear Door Heat Exchanger) (N+1)	RDHX-CW (Rear Door Heat Exchanger) (N+1)
MDF Room	2 Rooms (Each 10Racks)		
Meet Me Rooms	2 Rooms (Each 4Racks)		
Staging Room	1 Rooms (5 Racks)		
NOC Room	12 Technical desk, 6*2Screen, 1 manager cabin		
SOC Room	12 Technical desk, 6*2Screen, 1 manager cabin & 8-seater War Room.		
Meeting Room	TBD		
Office Area	Ground Floor in Axillary Modules		
Loading/Unloading	1		
Storage Room	1		
Fire Protection	Fire Suppression System		
Monitoring	DCIM + Leak Detection + Environmental Monitoring		
Security	Yes. Customizable as desired		

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Location

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