

CUBESQUARE

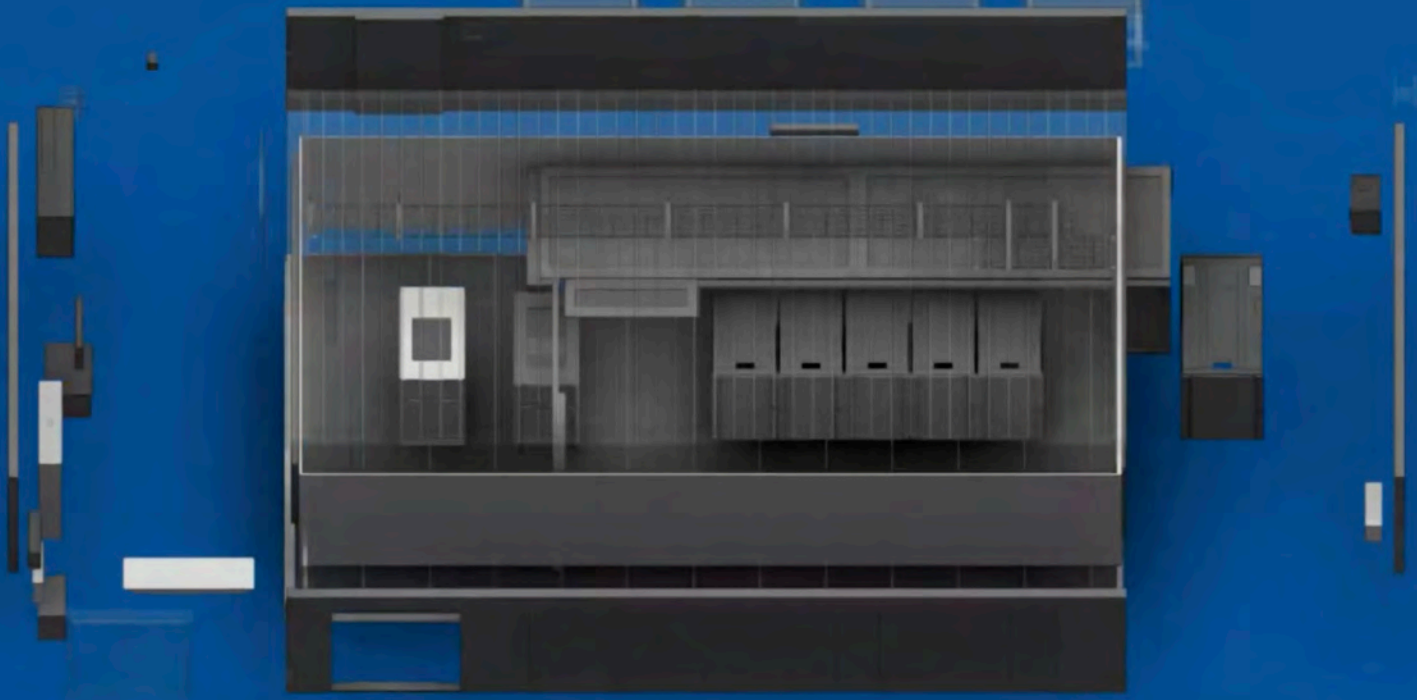
Modular Container Data Centers

Fast and flexible IT, anytime and anywhere



CUBESQUARE®

Turn-key Modular Data Center Manufacturing,
Implementation & Service Maintenance



Data centers made of traditional brick-and-mortar are the usual choice by many companies. However, the way many data centers are being constructed is essentially the same as it was thirty years ago.

Aside from higher costs and a much stronger need for space, traditional data centers take lots of time to build.

The bottom line: scalability, availability, efficiency and SPEED of deployment have become the most important considerations for today's data center customers.

We at CUBESQUARE are dedicated to delivering solutions that catalyze the industry 4.0, the 5G wave, IoT and cloud computing. It means we prioritize SPEED and TIME, neglecting the factor of size which can be scaled based on individual needs.

SPEED and TIME are the key factors alongside a constantly improving QUALITY.

Standard Data Center



Cubesquare Modular Data Center



Why CUBESQUARE?

Build and Deployment Speed

The prefabrication of our Data Center Modules enables civil, electrical and mechanical works to be done concurrently, reducing delivery times drastically.

24x7 NOC Support

We offer a 24x7x365 multilingual NOC support, managed through our own service desk. Reachable via phone, mail or messenger (Telegram, WhatsApp).

Modular and Flexible

Our Data Center Modules are easily expandable and a modular approach allows for simple and cost-effective upgrades and changes.

End to End Lifecycle Support

From pre-sales up until maintenance contracts. We support each step and stage of the product lifecycle.

Local Supply

The majority of our suppliers are located within 300km from our production plant. This way we also support small, regional businesses.

Standard vs. Custom

At CUBESQUARE we offer standardized ISO containers as well as customized Cubes. Every solution meets the customer's requirements.

- ◆ Our modules are built with ISO certified and reusable, steel containers - or custom-made steel enclosures.
*For alternative materials, please contact our sales department.
- ◆ ISO containers have standardized sizes of 20ft and 40ft which allow two or more containers to be joined easily.
- ◆ All data is managed and processed near the source and destination point, reducing latency drastically.
- ◆ In so-called Colocation Data Centers, customers cannot choose which systems and brands they want to use. Cooling, power and other system are unchangeable.
- ◆ From power supply, UPS and cooling up to monitoring and intrusion protection, we offer efficient project management, on-time delivery and commissioning.

Project Services

After Sales

We offer global service and maintenance support, through a 24x7 NOC.

Service and Maintenance



Manufacturing Process

We build all modules in our own production and assembly plant.

Production

Implementation

Solution Deployment

We deploy the turn-key ready module and commission it on-site.

Solution Development

We engineer a fit-for-purpose solution according to our customer's needs.

REQUEST

Pre-sales

Inception

Project Management

- Main Point-of-Contact
- Tracking of cost, quality and time
- Risk Management
- Procurement
- Logistics Management
- Documentation

Engineering

- Cooling Solution
- Electrical Design
- Mechanical Design
- Enclosure Design
- Security and Access
- Backup and Redundancy

Deploy and Commissioning

- Deployment Planning
- On-site Installation
- Technical Commissioning
- Customer Handover
- As-built Documentation

Service and Maintenance

- Maintenance Contracts
- Global on-call service dispatching
- 24x7 Remote Support (NOC)
- Remote Monitoring
- 2h-4h on-site Response

With CUBESQUARE's strong service organization and geographical reach, we can leverage the deployment and production times through our own supply chain management. We own the key elements of the product lifecycle stages, and in addition we supplement them with our large global partner network.

Product Portfolio

CUBESQUARE Module



Description	Specification	
Enclosure	Custom steel frame	6.5-13m (l) x 3.7m (w) x 3-3.4m (h)
Power	380/400V three-phase	Five wire System
Rack Space	6-12 racks with 42U x 800mm	up to 504U available
Load/Rack	5-10 kW	
UPS System	30/60 kW	15-20 minutes
Cooling System	Chilled Water System	N+1 / 2N Backup
Fire Suppression	NOVEC 1230	
Smoke Detection	VESDA-E System	
Walls and Doors	RC4 and F90	

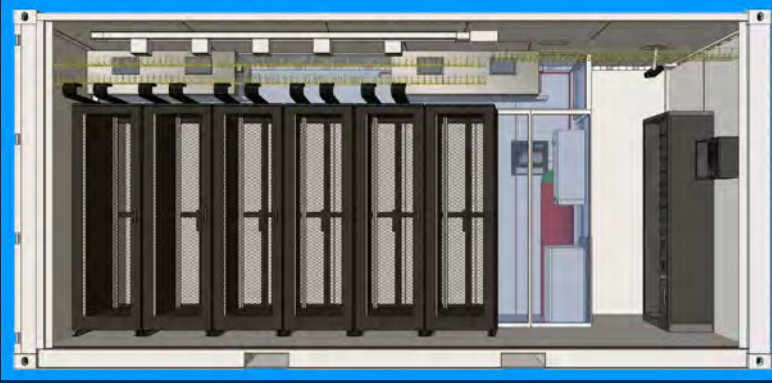
A customized CUBESQUARE Module offers many advantages compared to a normal shipping container:

- Length 6,50m-13,00m; width 3,70m; height 3,00m-3,40m
- More Rack space available
- Hot and Cold Aisle dimensions
- High quality appearance
- More options in technical and visual aspects

Our CUBESQUARE Modules are build to order and we offer a wide range of customization options to make the result stand out in terms of technology, shape, materials and color.

Since we are vendor agnostic, our customers can always choose the manufacturers they prefer. We will install and integrate them seamlessly.

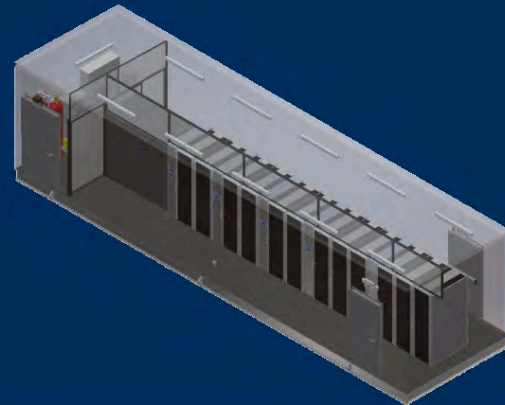
There are endless possibilities!



ISO 20

Description	Specification	
Enclosure	ISO 20 Container	6.10m (l) x 2.44m (w) x 2.59m (h)
Power	380/400V three-phase	Five wire System
Rack Space	6 x 42U x 800mm	up to 252U available
Load/Rack	5-10 kW	
UPS System	30/60 kW	15-20 minutes
Cooling System	Chilled Water / Split DX System	N+1 / 2N Backup
Fire Suppression	NOVEC 1230	
Smoke Detection	VESDA-E System	

OPEN MDC for OCP



The OCP (Open Compute Project) is a technical combination of openly available hardware components which define the standards for a growing number of applications. This community-driven project allows to reduce research and development costs and enables a cost-efficient industrial production.

Its standardized platform has been designed to be easily scalable according to the individual needs.

The Open MDC (Modular Data Center) is optimized to work with OCP hardware, and it supports and promotes the OCP criteria.

*If you are interested to explore the OCP world with us,
please contact us at: solutions@cubesquare.eu*



Off-Grid CUBETAINER Energy Storage

Containerized Battery System for Hybrid Energy Solutions

With our CUBETAINER System we combine green energy with smart storage solutions in order to reduce usage of expensive fossile fuels and increase the ecological footprint.

1. Photovoltaic Solar Panels

Solar panels represent the most reliable, predictable, and low maintenance source of energy for off-grid systems. We offer a range of solar technologies from leading manufacturers.

2. Wind Turbines

Wind turbines can be used alone, or as part of a hybrid system in which their output is combined with PV solar energy.

3. Generators

Needed when batteries are empty or there is a limited amount of solar/wind energy available. Our system works also without a diesel generator thanks to the battery banks that store the surplus energy which can be then used in low wind and sun conditions.

4. Inverter / Charger

Domestic appliances operate on AC current. Solar and other renewable sources generate DC current. An inverter is required to convert DC current from the renewable source to usable AC current.

	CUBETAINER 20	CUBETAINER 50	CUBETAINER 150
Capacity	10-20kW	20-50kW	50-150kW
PV Solar Panels	32	64	160
Container Size	ISO 10	ISO 20	ISO 40

Company Details

COMPANY NAME: Cubesquare[®] (registered trademark of Timelyne Consulting GmbH)

BRANCH OFFICE: Taunusanlage 8, 60329 Frankfurt am Main, Germany

PRODUCTION FACILITY: Czech Republic

RESEARCH & DEVELOPMENT: Frankfurt (Germany)

TOTAL MODULE CAPACITY PER ANNUM: 25-50 pcs.

DISTRIBUTION AND SERVICE AREA: Worldwide

CONTACT: solutions@timelyne.com

Visit our website for more details
and information

[https://www.timelyne.com/
cubesquare-overview](https://www.timelyne.com/cubesquare-overview)