EDGECENTER
Modular Data Center

PRASA

Defining EdgeCenter

In order to keep up with the fast-paced technological advancements, all things around us need modifications to work faster and more efficiently. And data centers are no different. This brought EdgeCenters into the picture.

EdgeCenter is a turnkey solution in a box or a container that encapsulates integrated rack system, cabling system, fire-fighting system, power, conditioning devices, humidifying/dehumidifying cooling solutions, security systems, and other electrical and mechanical configurations. These data center solutions are pre-engineered at the factory in **ISO containers or modified enclosures.**

Features / Advantages of EdgeCenter
(in comparison with conventional data centers)

The **deployment time of EdgeCenter is comparatively much shorter** than any conventional data centers. In an approx of 8 weeks, an EdgeCenter can be ready for deployment.

EdgeCenters **can be deployed at scale,** as the modules can be delivered with 300 to 2,000 servers pre-wired, tested, and ready to go in a couple of hours since all of the networking and tests happened at the factory.

Plug and play – Installation of EdgeCenter's modules is as easy as pie, as they need nothing more than a power connection, data connection and water connection (in case of chillers).

EdgeCenters **provide a huge advantage when it comes to cost saving,** as with EdgeCenters, you pay as you go since the power, IT, and cooling scales together with modules. Whereas, the conventional data center designs are somewhat fragmented since each and every part of it is designed assuming the worst case scenarios, which increases the capital expenditure on Day 1.

Every organization in this millennial era needs efficient, cost-effective, environment-friendly, and quickly deployable data center that demands very limited space

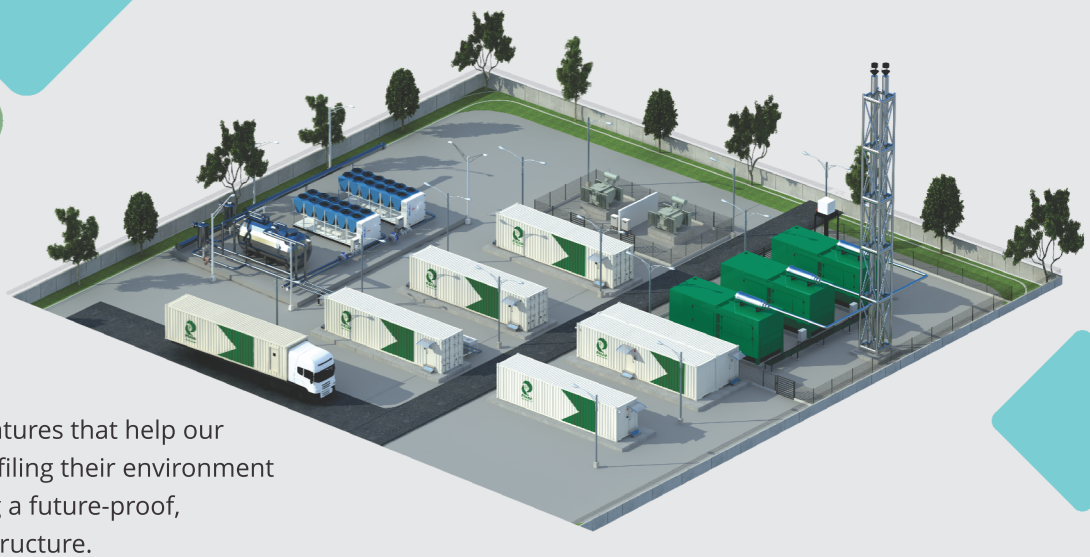
And EdgeCenter is the one-stop solution for the above necessities.

EdgeCenter was developed keeping in mind the rising need for Edge data centers in the evolving data center dynamics. It is built with completely **modularized design, flexible cooling, power design, quick deployment, and complete scalability options.**

Product Specifications and Applications

- EdgeCenter is compiled in **ISO certified,** reusable, steel shipping enclosures
- EdgeCenter is ISO standardized size of 40ft* 8ft, and 20ft*8ft. Two or more containers can also be joined to attain the desired size
- EdgeCenters manage and process the data near the generation point, **eliminating latency** and bandwidth usage
- **IoT devices** generate a humongous amount of data, which requires faster and safer processing of data, bringing the data center to the edge
- Transferring of data to-and-fro from a centralized data center is costly and delayed, making it unfeasible for **content delivery networks like Netflix, Amazon Prime, etc** and call for an EdgeCenter
- EdgeCenter has made a place in all the industry verticals like **healthcare, manufacturing, banking, media, real estate, IT, logistics, etc.**

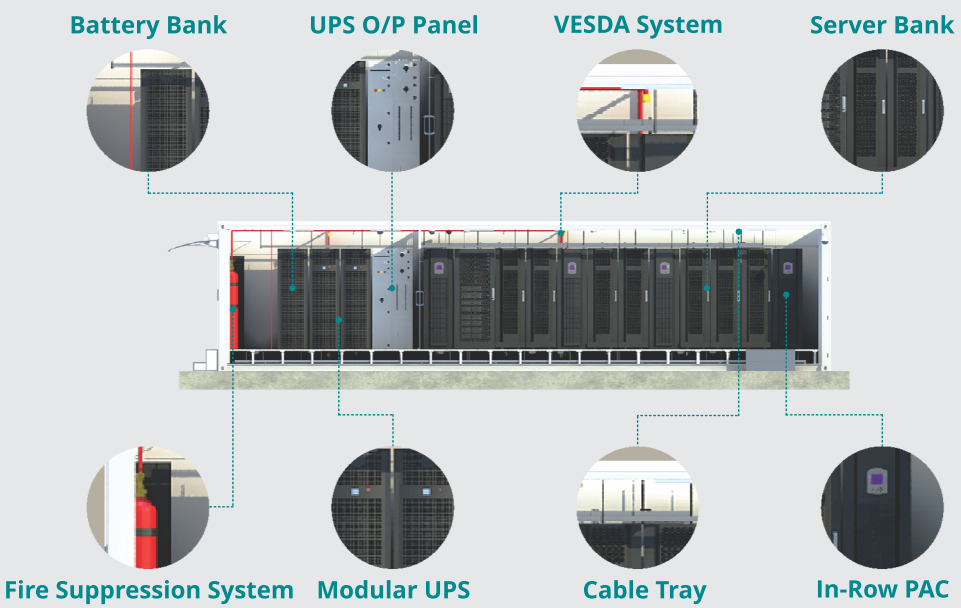
Why choose EdgeCenter?



EdgeCenter has all the features that help our clients by profiling their environment and providing a future-proof, secure infrastructure.

1. **Energy and cost efficient** – EdgeCenter is highly energy efficient with the PUE less than 1.19*, which reduces energy costs and carbon footprint. It provides all the advantages of a traditional data center at 20% to 30% lower price.
2. **Rapid deployment** – EdgeCenter is pre-engineered, prefabricated and pretested, thus, it can be deployed in just a few weeks. This saves a lot of energy & resources to the organization that in-turn reduces the total cost of ownership for the organization.
3. **Accommodating future requirements** – EdgeCenter is designed with a modern approach acknowledging the future requirements, and making upgrades easy, so that they can adapt with the technological advancements in the organization as a whole.
4. **High level of flexibility** – EdgeCenter provides a high level of flexibility in terms of IT space, cooling options, energy efficiency, infrastructural refreshes and vendor neutrality. It is reusable for the next build and can be duplicated with the same design for multiple sites.
5. **Perfectly suitable for disaster recovery** – Prasa's EdgeCenter is designed considering the concerns of outside deployments. Thus, effects of natural calamities are alleviated with the design that is at par with the seismic, snow loading, and wind rating industry standards. (IP55 ISO certified and UL 2755 certified).
6. **Portability** - EdgeCenter is built in a shipping container or customized metal enclosures, and can be very easily transported to very long distances by land, air and sea. In case of an unfortunate relocation requirement, your invaluable data in EdgeCenter can easily be moved to safety.
7. **Customizable** - Prasa knows that every organization has its specific needs and thus the standard EdgeCenter can be customized to accommodate your needs, by expanding horizontally, vertically or stacking two or more containers together, optimizing the required storage space.

*conditions apply



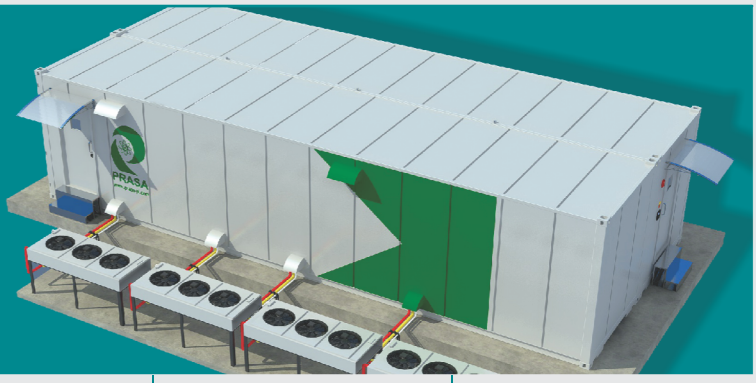
20' Container

Description	Rating	Total Capacity	Option
Enclosure	ISO 20' Container	20'L x 8'W x 8'6"H	25'L x 8'W x 8'6"H
Power Requirement	3-phase 4 Wire	208 VAC	480 VAC
IT Rack Space	4 x 42U	168U	210U
Max. Per Rack Load	8.75kW	35kW	43.75kW
Power Solution	Modular 40kVA UPS with 5 mins back-up	40kVA/40kW	60kVA/60kW
Cooling Solution	10TR In the row PAC x 2 (N+N)	35kW	70kW
Monitoring	End-to-End IBMS Solution for monitoring critical parameters		
Fire Suppression	NOVEC 1230 Gas Flooding System		

40' Container

Description	Rating	Total Capacity	Option
Enclosure	ISO 40' High Cube Container	40'L x 8'W x 9'6"H	53'L x 8'W x 9'6"H
Power Requirement	3-phase 4 Wire	208 VAC	480 VAC
IT Rack Space	8 x 42U	336U	420U
Max. Per Rack Load	11.25kW	90kW	112.5kW
Power Solution	Modular 90kVA UPS with 5 mins back-up x 2 (N+N)	90kVA/90kW	120kVA/120kW
Cooling Solution	10TR In the row PAC x 4 (N+1)	105kW	140kW
Monitoring	End-to-End IBMS Solution for monitoring critical parameters		
Fire Suppression	NOVEC 1230 Gas Flooding System		

40' x 2 Containers



Description	Rating	Total Capacity	Option
Enclosure	ISO 40' High Cube Container x 2	40'L x 16'W x 9'6"H	53'L x 16'W x 9'6"H
Power Requirement	3-phase 4 Wire	208 VAC	480 VAC
IT Rack Space	18 x 42U	756U	924U
Max. Per Rack Load	11kW	198kW	242kW
Power Solution	Modular 200kVA UPS with 5 mins back-up x 2 (N+N)	200kVA/200kW	250kVA/250kW
Cooling Solution	10TR In the row PAC x 8 (N+2)	210kW	280kW
Monitoring	End-to-End IBMS Solution for monitoring critical parameters		
Fire Suppression	NOVEC 1230 Gas Flooding System		

Data Hall

Description	Rating	Total Capacity	Option
Enclosure	ISO 40' High Cube Container multiple Nos.	Customized	
Power Requirement	3-phase 4 Wire	208 VAC / 480V	
IT Rack Space	42U Multiple Nos.	Customized	
Max. Per Rack Load	Up to 20kW	Customized	
Power Solution	500kVA Multiple Nos.	Customized	
Cooling Solution	Bottom Discharge PAC	Customized	
Monitoring	End-to-End IBMS Solution for monitoring critical parameters		
Fire Suppression	NOVEC 1230 Gas Flooding System		

EdgeCenter The need of the day

The continuous increase in digital technology popularity and usage has caused the data consumption to take a steep climb. Digital disruption caused by social networks, big data, content delivery networks (like Netflix, Amazon Prime, etc), the explosive growth of mobile data and IoT devices, and the advent of 5G have completely changed the way we consume and look at data and thus calls for new approaches to the way we design and build data centers.

The **need for speed** by the end consumer no longer allows the data to be transported to the centralized data center. So how are we going to process this humongous data that is produced?

We take the data center **near the data generation points!**

Creating an array of mini data centers and placing them near the data generation points at the edge is the need of the hour, and EdgeCenter is here to house the data processing compute at the edge. Giants like Microsoft, Google and Amazon have sensed the urgency for edge and have already deployed their edge data centers around the world. Microsoft has taken the edge technology a step forward by immersing its edge data center in the sea with a pilot project.

PRASA Why Prasa's EdgeCenter stands out among other Containerized solution?

- Prasa believes in delivering the infrastructure at the **right time to market (RTM)**
- EdgeCenter when compared with other Containerized Data Center offers the **lowest total cost of ownership (TCO)**
- **The costs, time efficiencies, and carbon savings** provided by EdgeCenter are unmatched
- EdgeCenter gives you an option to tweak and **customize** a prefabricated design
- EdgeCenter stands tall in the face of all natural phenomenon
- Eligible for **TIER-Ready** certification from Uptime Institute ®

FAQ about EdgeCenter

Q1. How long does it take to deploy an EdgeCenter after buying?

The all-in-one design of EdgeCenter is built by keeping easy portability and quick deployment in mind. After making a purchase EdgeCenter can be **deployed and installed in 8 weeks**.

Q2. What are my customization options with the EdgeCenter during and after deployment?

Prasa's EdgeCenter is **customizable anytime and every time.** Prasa gives you an option to scale its custom design according to your organizational requirement while making the purchase. EdgeCenter is a custom-friendly device and can be modified by making alterations and additions to it even in the future. Customized solutions from 3 racks up to 30KW, to multiple racks up to 500KW can be provided in modular container form factor.

Q3. Is my EdgeCenter environmentally sustainable?

EdgeCenter delivers the **Power Usage Effectiveness (PUE) of less than 1.19*,** making the product extraordinarily energy efficient. EdgeCenter is a green initiative in data centers by Prasa, and aims at bringing the carbon footprint of the product significantly down to a fraction of what is delivered in the currently prevalent technologies. EdgeCenter is built in the ISO certified recyclable shipping containers, making them environment-friendly. EdgeCenter is also **UL2755 certified.**

Q4. What are my options with EdgeCenter during disaster recovery?

EdgeCenter design is **safe for outside deployments**. The risk of natural calamities is alleviated with the EdgeCenter design, which is at par with the seismic, snow loading, and wind rating industry standards. If the region of your data center is under threat, your valuable data can easily be ported to a safe zone.

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