

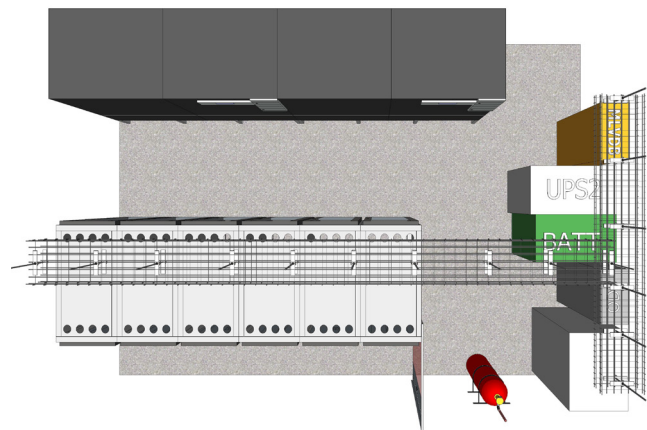
The demand for new data centres at the network's edge is growing exponentially, driven by the emergence of applications requiring data to be processed much closer to where it's generated.

New 5G cellular base stations; the Internet of Things; autonomous vehicles and other AI technologies; or cloud-based consumer services such as gaming and video where content needs to be cached much closer to their users – all these latency-sensitive applications need the fastest possible response times, with their servers placed at the extreme edge of the network rather than in a hyperscale facility hundreds or possibly even thousands of kilometres away.

SmarterCity.Tech's Micro Edge data centre using www.Vapor.IO computing provides a solution to augment traditional centrally-

located core data centres and provide computation, networking and storage at the edge. It is a self-contained data centre designed for six to seven racks and contains all the components of a traditional data centre – power, cooling, security, fire detection and suppression systems, etc. – within a robust outdoor module.

SmarterCity.Tech's experience in building the world's most versatile modular data centres has enabled it to integrate all the required functions into an extremely compact footprint. And its success in delivering prefabricated data centres in some of the world's most remote and challenging environments means that eCentre Micro Edge data centre users can be sure they will benefit from the highest levels of performance and reliability.



eCentre Micro Edge data centre module and six rack plan layout

As part of the eCentre portfolio, the Micro Edge data centre offers an extremely high quality and reliable home for your edge servers. Complete prefabrication of the facility in SmarterCity.Tech's clean room factory environment prior to shipping to site delivers a very high degree of control over system

installation, integration, cost management, on-time delivery and overall project risk reduction. And it means that installation on site requires just a few hours to complete. So, for the ideal micro edge data centre solution at the network edge, the choice can only be eCentre.

Advantages of an eCentre Micro Edge data centre include:

- Complete and ruggedized outdoor solution, able to withstand the most challenging environmental conditions.
- Optimised for PUE efficiency, by using either DX cooling or indirect free air cooling.
- Can be deployed almost anywhere: in a parking lot, at the base of a cell tower, or inside, for example, on a factory floor.
- Options to connect to grid, generator and solar power sources.

Micro Edge Data Centre Specifications

| | | |
|--------------------------------------|--------------------|---|
| Micro Edge Data Centre Module | Rack space | Six to seven racks |
| | Module | 27sqm (291sqft) outdoor enclosure Seam welded steel module designed for live load of 17.5kN/m ² (1,750kg/sqm) Dimensions: 6,160 x 4,450 x 3,600 (L x W x H) 6,160 x 4,450 x 4,300 (L x W x H). [High module] |
| | Surface protection | Corrosion classes: C3, C4 and C5 |
| | Rack size | 600mm x 1,200mm 42U 600mm x 12,000mm 52U [High module] |
| | IT load | 48kW (average 8kW per rack for 6 racks) |
| | Security | Fire rating |
| Fire detection | | Smoke detectors VESDA early warning detection |
| Fire suppression | | NOVEC 1230 |
| Theft protection | | Vandal proof locking mechanism CCTV and access control |
| Power | UPS | Single or three phase UPS |
| | DC system | Optional DC solution |
| | Solar | Optional solar controller |
| | Battery autonomy | 10 minutes at full load |
| Cooling | Cooling type | DX precision cooling or indirect free air cooling |
| | Air distribution | CRAC units |
| Monitoring System | BMS | Temperature, humidity, power systems, cooling systems with remote access and e-mail/SMS notifications |



Palau



eCentre micro data centre for NEXTDC in Australia