



CAPABILITY STATEMENT

# PREFABRICATED MODULAR SOLUTIONS

EDGE DATA CENTERS | CABLE LANDING STATIONS |  
TELECOMMUNICATIONS FACILITIES | COMMUNICATION EQUIPMENT ROOMS |

**DXN Limited**  
(ACN 620 888 548)



Visit our website [dxn.solutions](https://dxn.solutions)



# **DXN Limited designs, manufactures, operates and owns data centres that bring critical communication infrastructure closer to where users need it**



**DXN Limited is Asia Pacific's only vertically integrated manufacturer and operator of modular data centres. DXN's core business is designing, engineering, manufacturing, maintaining and operating data centres.**

Our prefabricated modular data centre solutions are designed to be scalable, purpose-built and easily deployable worldwide, with comprehensive maintenance and support. At DXN Modules, we provide a complete data centre solution that includes power systems, cooling systems, power distribution systems, cable trays, fibre trays, fire detection and suppression systems, structured cabling, lighting, access control, CCTV security systems, and complete data centre monitoring solutions.

We can custom design DXN modular data centres for a variety of EDGE deployments, from colocation edge data centres to remote micro edge data centres. With DXN Modules, you have the flexibility to create open white space modules ranging from as small as 2 racks to 500 racks in a data hall.

GLOBAL PARTNER



**FLOW and DXN Limited have jointly entered a 10-year Exclusive Global (excluding Australia) Distribution License Agreement targeting the international export market for DXN data centre modules and Exclusive Global Consulting Services Agreement supporting edge data centre operations across Asia Pacific.**



## What We Do

DXN Limited specialises in producing prefabricated, turnkey solutions that are purpose-built, scalable, and can be quickly deployed for a variety of applications including:

- Edge Data Centers,
- Cable Landing Stations,
- Telecommunications Facilities
- Communication Equipment Rooms.

## DXN Module Differentiators



Every solution is custom designed for specific customer requirements.



Designed for any Uptime TIER Level – TIER III Concurrently Maintainable designs or TIER IV 'Fault Tolerant' design with no single point of failure.



Complete in-house design, engineering and manufacturing.



Vendor agnostic designs that allow customers to choose the vendors they prefer.



Accelerated time-to-market, less than 24 weeks for a typical project delivered to site.



Robust high-quality solution designed and built by an Australian based engineering and manufacturing team.



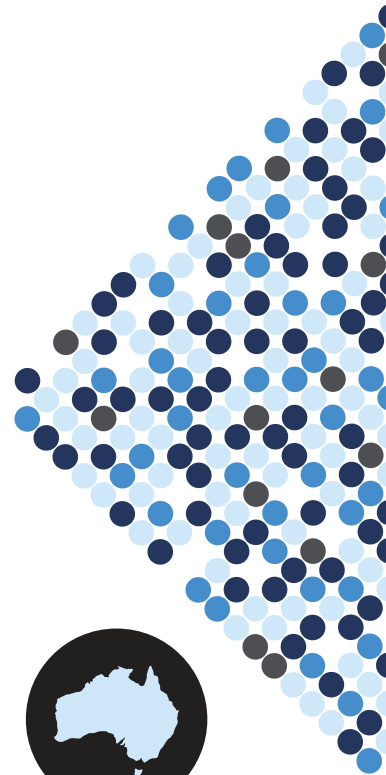
Designed and manufactured to last over 20 years in the harshest environments.



Modular and scalable design allows the customers to keep the initial CAPEX low and scale as and when needed.



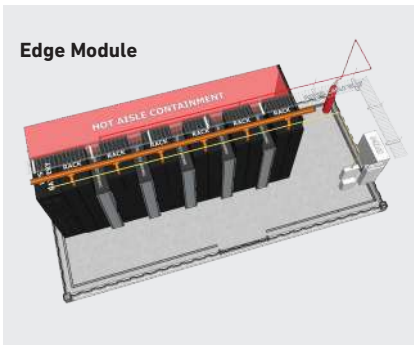
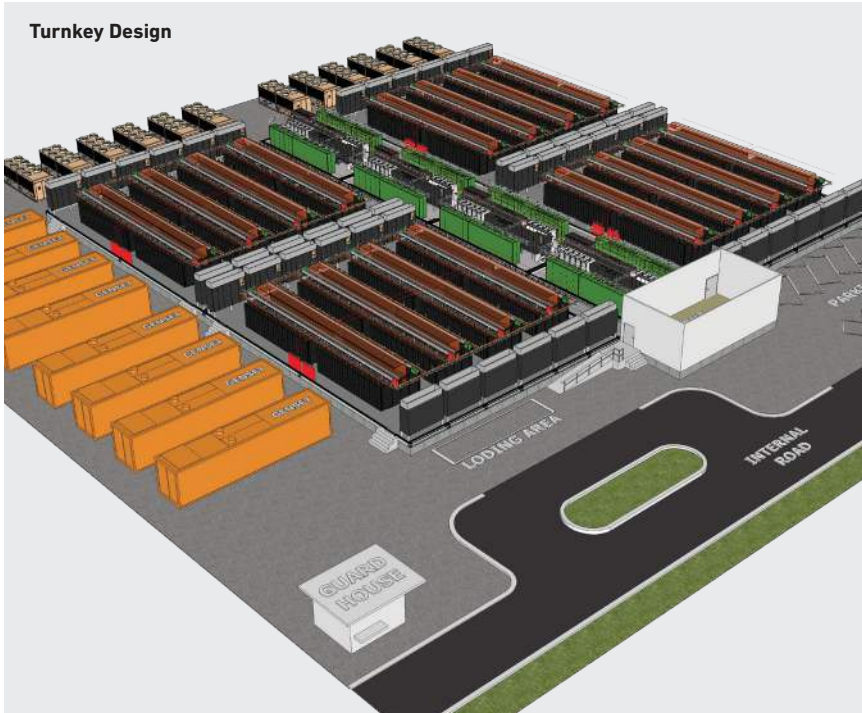
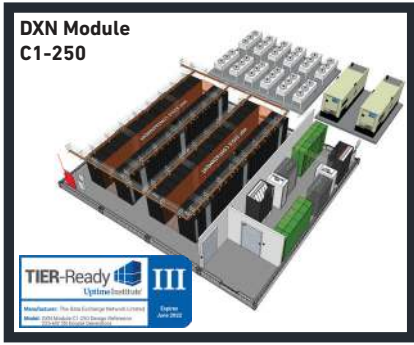
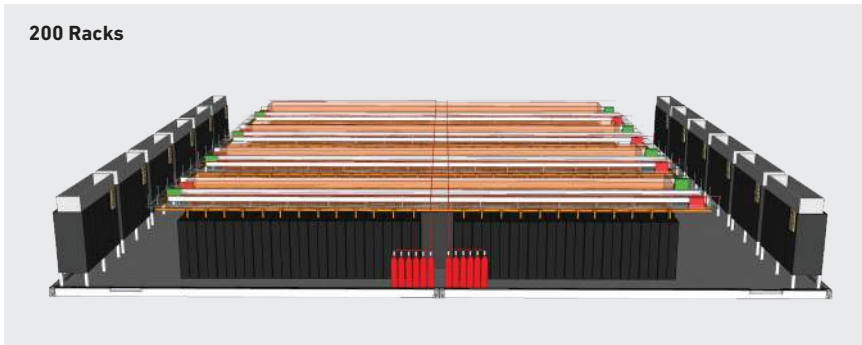
Both remote and on-site maintenance and support.



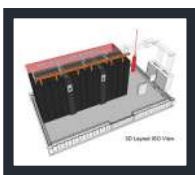
### Proudly Built in Australia

Our Manufacturing Facility is based in Perth Western Australia

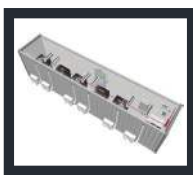
# Modules and Size Overview:



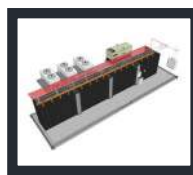
**E1 Module**  
(2 Rack MicroDC)



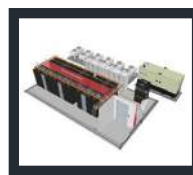
**D1 Module**  
(6 Rack Module)



**A1 Module**  
(10 Rack Module)



**C1 Module**  
(15 Rack Module)



**2 x C1 Module**  
(20 Rack Module)



**4 x C1 Module**  
(50 Rack Module)



**Modular Designs:** DXN Modules can be fully custom designed from a 2-rack solution up to 50 racks catering for various Edge deployment strategies, fully ready for rugged outdoor applications.



**Expansion:** One option is to completely duplicate the module alongside the first when the customer is ready for expansion. The second option is to build a larger module to support the future rack space Day 1, and expand on power and cooling in a modular way.

# Deployment Map

## Modules

2. AGIG
3. Teletok
4. Telkom Niue
5. Avaroa Cable Limited
6. Southern Cross
7. SES | Networks
8. Speedcast Project 2
9. Synergy
10. Resolute
11. SES | Networks Project 2
12. Venues West
13. AHG
14. Sub.co
15. Boeing
16. Covalent Lithium
17. Streamline Connect
18. Newcrest Mining
19. SISCC
20. Wingu Africa Ethiopia
21. Wingu Africa Tanzania
22. Wingu Africa Somaliland
23. BSCC Palau
24. Multiplex

**Manufacturing Facilities**  
1. Perth





## Sub.Co

### Overview:

DXN has signed a full turnkey supply and installation agreement with Sub.Co to design, prefabricate, build and install a fully engineered Cable Landing Station (CLS)

### Solution Specification:

- 4 rack Rack CLS
- 15kW IT Load
- 2N Power System
- Dual Generators and ATS
- Built to withstand zone 4 seismic conditions
- C5 protective paint to ensure surface protection for highly corrosive environments
- 1 hr fire rated walls and doors
- 4 x Split Cooling unit with 5.5kW cooling capacity each in N+1 redundancy
- Aspirating smoke detection and IG541 inert gas suppression system



## BSCC

### Overview:

DXN proposes to design, prefabricate in the factory, transport, fully install and commission built-to-suit prefabricated modular cable landing station in Palau. We also provide as part of our solution a full BMS management system.

### Solution Specification:

- CLS design to withstand Cat 5 rating and zone 4 seismic rating
- 2N redundancy on DC system with 4 hours backup each leg at 20kW load (total 8 hours backup)
- Optional 50kW AC UPS with 30 minutes backup
- Mains power supply 220V / 110V
- Building Management system
- IT load for NEC PC2 Technical is 18.3kW DC load and 1.9kW AC load
- IT load for TPN Room is 47kW AC load
- Total 67.2kW IT load

## Customer Reference



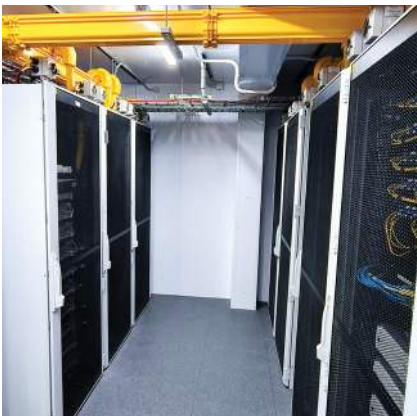
### Newcrest Mining

**Overview:**

DXN commissioned to design and build 2 x C1 Custom designed solution which will house Newcrest's critical communications Infrastructure in Cadia, NSW.

**Solution Specification:**

- 20 Rack DC
- 150kW IT Load
- BMS Solution
- Dedicated Hot and Cold Aisle
- Fire Suppression System
- UPS Backup
- In-Row Cooling System
- Custom Built Distribution Board
- Integrated Man Trap



### Multiplex

**Overview:**

DXN Limited executes contract with Multiplex to fabricate, supply and install a modular data centre plus 10 'turn-key' communication rooms. The works are for the Centre for National Resilience Perth.

**Tech Details for Data Centre:**

- DXN A2 Modules used for build
- 2 x A2 module were combined to form the data centre. Each module dimension were 12.2m (L) x 2.44m (W) x 2.9m (H).
- Internal module space to accommodate 15 racks.
- Each rack dimension of 800mm (W) x 1200mm (D), 42RU
- 3.75kW per rack and total 56.25kW IT load (included 25% spare)
- 2N UPS system and N+1 DX In-Row Cooling System•2 hours fire rated module



DXN Limited (DXN) specialises in designing, manufacturing, and operating state-of-the-art data centres that are located in strategic locations to better serve the needs of users. We at DXN believe in pushing the boundaries of what traditional data centres can achieve, particularly when it comes to edge computing. As the premier vertically integrated data centre provider in the Asia-Pacific region, we offer both traditional data centre facilities and cutting-edge standalone prefabricated data centre solutions.

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