

WORLD CLASS DESIGN
WITH BEST IN CLASS
OPERATIONAL PROCESSES

Sydney East Technical Specification



**UNINTERRUPTED
POWER**



**BESPOKE
SOLUTIONS**



**NETWORK
DENSE**



**CLOUD
CONNECTIVITY**

GLOBAL SWITCH

Global Switch is a leading owner, operator and developer of large scale network dense, carrier and cloud neutral multi-customer data centres in Australia. Our data centres provide rich ecosystems and offer reliability, security and flexibility that our customers require to house their IT infrastructure.

Services

Private Suites

These self-contained areas, which can include 24x7x365 network operating centre facilities, are designed and built to customers bespoke specifications.

Cages

The Global Switch cage solution offers the benefits of large-scale resilience for medium sized IT space and power requirements. This solution provides secure private areas for customers and offers flexibility in design and layout.

Racks

Situated in colocation areas, our racks are a vital resource for businesses looking to outsource their critical IT infrastructure, establish a presence in multiple locations or expand their footprint as their space requirements grow.

Meet Me Rooms

Meet Me Rooms offer telecommunications companies highly secure purpose built areas to house their network infrastructure in order to connect with a host of companies and organisations within the data centres.

Key benefits

Scale: As we own and operate one of the largest data centre campuses in Australia, we have the flexibility to offer scalable options allowing you to evolve and grow as your needs change.

Flexibility: Access to the full range of space and power solutions with flexibility to meet your needs.

Network dense: Data centres that are located adjacent to Sydney's central business district offer connectivity rich, low latency solutions with direct access to the major international fibre routes.

Competitive options: A strong diverse service provider ecosystem ensures that customers have access to competitive pricing for a complete range of services.

Resilient Infrastructure: Global Switch provides uninterrupted power with multiple layers of redundancy, optimised cooling and security. Monitoring of these key components through highly sophisticated building management systems is backed up by 24x7x365 security and technical support teams.

Bespoke solutions: Solutions can be tailored to individual customer requirements.

Environmental commitment: Energy efficiency is at the core of our business. Through innovation in design, operation and working closely with our customers, we are continually improving the energy efficiency of our data centres.

Operational excellence: Key ISO certifications complement a robust Critical Environments Programme which is central to applying and maintaining best in class practices across our data centre campus.

Financial strength: A financially secure owner and operator.



**WORLD-CLASS
DATA CENTRES**



**OPTIMISED
COOLING**



**CARRIER
NEUTRAL**



**HIGHLY
SECURE**



**ENVIRONMENTAL
COMMITMENT**



**OPERATIONAL
EXCELLENCE**

SYDNEY EAST



Location

- The data centre is located less than 1.5km from the financial district and city centre
- A local metro railway station is located within a 5 minute walk. Inner city tram and bus access is readily available
- Kingsford Smith Airport is 10km away

Building Overview

- Global Switch owns the freehold
- Purpose built
- Exceeds Tier III operational performance
- 31,226 sq m of gross space
- 5 data floors
- Flexible IT space with ability to create bespoke environments as required

Main Structural Features

- Reinforced post tensioned concrete construction floors and columns, concrete walls with aluminium cladding and glazing
- 5.2m slab to slab height
- Raised floor height of 1,000mm
- Minimum from raised floor: 3.2m clear height to underside of ceiling
- Floor loading of 15kN/m²
- 1 goods lift (11 tonnes), 1 passenger lift

Power

- 33kV utility supply with N+1 redundancy
- Utility power supply capacity of 45MVA (current and planned)
- Technical (IT) power and mechanical systems supplied by on-site Diesel Rotary UPS with N+2 redundancy
- Fully diverse power distribution to technical areas
- On-site fuel storage to support 24 hours at full capacity with 24x7x365 fuel delivery
- Offering 1,850 W/m² as standard, with higher density solutions fully supported

Cooling

- 35.4MW of installed and planned cooling provision
- Minimum N+1 resilience on all systems
- CRAH units control temperature and humidity in technical space within the recommended range of ASHRAE TC9.9
- Diverse distribution pipework throughout
- Chilled water cooling system with free cooling loop
- In rack cooling capability if required

Security

- Operations Centre manned 24x7x365
- Security guard patrols 24x7x365
- Continuous CCTV surveillance of external and internal areas
- CCTV records kept for 31 days
- Comprehensive intruder detection and alarms to all areas
- Strict access control procedures to ISO 27001
- Access control using proximity card readers and biometric systems
- Physical access via mantrap
- Secure managed delivery and loading area available 24x7x365
- Secure staging available, if required

Connectivity

- Carrier Neutral
- Network dense with access to multiple global and regional carriers and Internet service providers offering Dark Fibre, Wavelength, Ethernet, MPLS, VPLS, IP Transit, Peering, CDN, Storage, Virtualised Services (SDN), Voice, Mobile Services
- Access to multiple cloud services through leading public, private and hybrid cloud solution providers
- 4 dedicated Meet Me Rooms
- 3 diverse building entry points
- Diverse cable routes and pathways
- Campus fibre system interconnecting Sydney East to Sydney West
- Roof space availability for satellite and antennae equipment
- PipeIX, MegalX and IX Australia present

Fire Detection and Suppression

- Analogue addressable fire detection system in all areas
- Aspirated early warning smoke detection system (monitored 24x7x365)
- Inergen gas suppression system in technical areas with dry pipe pre-action sprinkler for additional resiliency

Critical Environments Management

- Experienced 24x7x365 facilities management team
- Environment (thermal conditions) monitored 24x7x365
- All Building Management Systems (BMS) monitored 24x7x365
- Comprehensive energy metering systems
- Internationally recognised critical environments programme

Other Services

- Cross connects
- Customer reports
- Deliveries and storage
- Design and build
- Fit-out
- On-site facilities
- Remote hands
- Technical cleaning and waste disposal

Certifications

- ISO 9001, 14001, 27001, 45001, 50001

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