

# A GLOBAL CONNECTIVITY AND CONTENT HUB PROVIDING SCALABLE DATA CENTRE SOLUTIONS

**Singapore Tai Seng** 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 Europe and Asia-Pacific. 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:** Scalability with over 4,100,000 sq ft (387,000 sq m) across eleven world-class, fully-fitted data centres.

**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 central business districts exclusively in Tier 1 markets 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 global data centre portfolio.

**Financial strength:** A financially secure owner and operator with investment grade credit ratings.



**WORLD-CLASS  
DATA CENTRES**



**OPTIMISED  
COOLING**



**CARRIER  
NEUTRAL**



**HIGHLY  
SECURE**



**ENVIRONMENTAL  
COMMITMENT**



**OPERATIONAL  
EXCELLENCE**

# SINGAPORE TAI SENG



## Location

- The data centre is located 9km from the financial district and the city centre
- A MRT station is located within a 10 minute walk, bus access is readily available
- Changi Airport is 15km away

## Building Overview

- Global Switch has a long term lease with renewal rights for a further 30 years
- Purpose built
- Exceeds Tier III operational performance
- 26,743 sq m of gross space
- 7 data floors
- Flexible IT space with ability to create bespoke environments as required

## Main Structural Features

- Steel frame with reinforced concrete floors, metal faced cladding and glazing
- 4.1m typical slab to slab height
- Raised floor height of 600mm
- Minimum from raised floor: typical 3m clear height to underside of deepest beam
- Floor loading of 5kN/m<sup>2</sup> and 7.5kN/m<sup>2</sup>
- 2 goods lifts (3.5 tonnes), 2 passenger lifts

## Power

- 22kV utility supply with N+N redundancy
- Utility power supply capacity of 30MVA (current and planned)
- Technical (IT) power supplied by on-site 2N static UPS in the Main Building and by Diesel Rotary UPS with N+1 distributed redundancy in the Extension Wing
- Mechanical systems supported by diesel backup generator system in the Main Building with N+1 redundancy
- Fully diverse power distribution to technical areas
- On-site fuel storage to support 24 hours at full capacity with 24x7x365 fuel delivery
- Offering 1,000 W/m<sup>2</sup> as standard, with higher power density solutions fully supported

## Cooling

- 30MW of installed cooling provision
- Minimum N+1 resilience on all systems
- CRAC units control temperature and humidity in technical space within the recommended range of ASHRAE TC9.9
- Diverse distribution pipework throughout
- Condenser water and chilled water based cooling systems

## Security

- Operations Centre manned 24x7x365
- Security guard patrols 24x7x365
- Continuous CCTV surveillance of external and internal areas
- CCTV records kept for 90 days
- Comprehensive intruder detection and alarms to all areas
- Strict access control procedures to ISO 27001
- Access control using proximity card readers
- Physical access via mantrap
- Secure managed delivery and loading area available 24x7x365
- Compliant with Monetary Authority of Singapore's (MAS) TVRA requirements

## Connectivity

- Carrier and cloud 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 and Mobile Services
- Access to multiple cloud services through leading public, private and hybrid cloud solution providers
- 7 dedicated Meet Me Rooms
- 2 diverse building entry points
- Diverse cable routes and pathways
- Roof space availability for satellite and antennae equipment
- Singapore Internet Exchange (SGIX) present
- Several submarine cables landing directly in the building

## Fire Detection and Suppression

- Fully addressable fire detection system in all areas
- Aspirated early warning smoke detection system (monitored 24x7x365)
- Dry pipe pre-action sprinkler system and Inergen gas suppression system in technical areas

## Critical Environments Management

- Experienced 24x7x365 facilities management team
- Environment (thermal conditions) monitored 24x7x365
- All Building Management Systems (BMS) monitored 24x7x365
- Comprehensive energy metering system
- 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
- Waste disposal

## Certifications

- ISO 9001, 14001, 27001, 45001, 50001

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