

WORLD CLASS DATA CENTRE DESIGN  
LOCATED CLOSE TO HONG KONG'S  
CENTRAL BUSINESS DISTRICTS

Hong Kong Technical Specification



UNINTERRUPTED  
POWER



BESPOKE  
SOLUTIONS



NETWORK  
DENSE



CLOUD  
CONNECTIVITY

# GLOBAL SWITCH

Global Switch is a leading owner, operator and developer of large-scale, multi-customer, carrier neutral data centres across Europe and Asia-Pacific. Our data centres provide a rich carrier and cloud-neutral ecosystem and offer the reliability, security and flexibility that our customers require to house their compute, storage and networking infrastructure.

## Solutions

Global Switch provides comprehensive colocation facilities within its network dense, carrier and cloud neutral data centres.

There are a range of highly flexible scalable options available, enabling customers to quickly deploy their compute, storage and networking as well as control costs and manage their growth as their businesses evolve.

Global Switch offers an extensive array of services designed to meet customers' IT needs. These range from cloud and managed services to remote hands and technical cleaning. For services at Global Switch Hong Kong please see the next page.

All Global Switch data centres offer unique and ever expanding ecosystems, where customers are able to deploy a myriad of applications and seamlessly interconnect to a huge range of technology, telecommunication and cloud providers, as well as enterprises and other organisations.

## Key benefits

**Scale:** Scalability with over 3,650,000 sq ft (340,000 sq m) across eleven world class, fully-fitted data centres.

**Flexibility:** Access to the full range of colocation 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**

# HONG KONG



## Location

- The data centre is located close to the Hong Kong Stock Exchange hosting facility and Hong Kong's Central Business Districts
- The local railway station (MTR, Mass Transit Railway) Lohas Park is located within a short walk, with taxi and bus access
- Chek Lap Kok International Airport is 50 minutes away by car

## Building Overview

- Global Switch has a long term lease with renewal rights over the land
- Purpose built
- Exceeds Tier III operational performance
- 71,000 sq m of gross space
- 5 buildings
- Flexible IT space with ability to create bespoke environments as required

## Main Structural Features

- Concrete structure with metal faced cladding and glazing
- 6m slab to slab height
- Raised floor height of 900mm
- Minimum from raised floor: 4.3m clear height to underside of deepest beam
- Floor loading of 12kN/m<sup>2</sup>
- 2 goods lift (5 tonnes), 7 passenger lifts

## Data Centre Services

### Power

- Initial 11kV utility supply with ultimate load supported by 132kV utility supply with N+1 redundancy
- Utility power supply capacity of 100MVA (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 1,750 W/m<sup>2</sup> as standard, with higher power density solutions fully supported

## Cooling

- 71.5MW 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

## 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
- Perimeter Intrusion Detection system (PIDs)
- 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

## 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 and Mobile Services
- Access to multiple cloud services through leading public, private and hybrid cloud solution providers
- 2 dedicated Meet Me Rooms
- 2 diverse building entry points
- Diverse cable routes and pathways
- Roof space availability for satellite and antennae equipment

## Fire Detection and Suppression

- Digital 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 system 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

- Cloud services
- Colocation
- Cross connects
- Customer reports
- Data storage
- Deliveries and storage
- Design and build
- Distributed Denial of Service attack (DDoS) Service
- Fit-out
- Managed connectivity
- Network security
- Remote hands
- Technical cleaning and waste disposal

## Certifications

- ISO 9001, 14001, 27001, 45001, 50001

*Technical specification, which is subject to change, relates to the completion of all stages of Global Switch Hong Kong*

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