

TSEUNG KWAN O (GLOBAL CENTER) DATA CENTER

Strategic Location with Robust Global Network

Tseung Kwan O (Global Center) data center, strategically located at the Tseung Kwan O (TKO) Industrial Estate, is in close proximity to HKEx and well connected to global and local carriers. The new Tier III certified facility with 370,000 square feet total gross floor area is designed to support higher power and capacity cabinet at the highest level of customer demand.

Tseung Kwan O data center provides 99.99% site availability and high operating efficiency to satisfy enterprises' stringent business needs and customization requirements. It is well positioned to deliver global network connectivity as well as cloud computing technologies and innovative services for private and public organizations in Hong Kong, mainland China and beyond.

World-Class Infrastructure

- ▲ Tier III architecture design and construction
- ▲ 800Gbps bandwidth with backbone network latency <4ms
- ▲ Highest standards of reliability, security, efficiency and quality
- ▲ Stable infrastructure and optimal resilience in any critical situation
- ▲ Dual 100% uninterruptible power source
- ▲ Stringent security system: multiple trap doors, electronic card locks, locked cabinets

Comprehensive Value Added Services

- ▲ Remote support
- ▲ Data center relocation
- ▲ Managed services
- ▲ BCP work space

Best Practices and Industry Standards



- ▲ Tier III Design and Construction by Uptime Institute
- ▲ LEED Gold certified in Green Building
- ▲ ISO27001 Information Security Management System

Extensive Data Center Coverage

Operating the extensive data center network in Hong Kong and mainland China, PCCW Solutions provides unique cross-border data center services and connectivity for your business across the region.

Tseung Kwan O



World-class Data Center Specifications

DATA CENTER AREA

Building Features

- Total Gross Floor Area is around 370,000 sq feet
- G/F - CLP HV Room, Chiller Room, TBE Room
- 1/F to 4/F - Data Centre and UPS Rooms
- 5/F - Utility Floor (Electrical Room, Generators, Cooling Tower & etc).

Floor Height

- 5.6 meters (floor-to-floor ceiling height)

Floor Loading

- Data Center: 12 KPA

Rack Capacity

- Standard Rack (47U): 600mm (W) x 1200mm (D) x 2300mm (H)

Telecoms Facilities

- Dual lead-in for telecom cable access
- Dual centralized Main Distribution Frame (MDF)
- Dual Fixed Telecom Network Service area (FTNS)
- Carrier neutral

Amenities

- Loading bay for lorry and containers
- Car park spaces in G/F
- Full rack height cargo lift and corridors
- Customer work area (staging rooms per floor)
- NOC for 7x24 network management and monitoring, fault reporting

COOLING SYSTEMS

Cooling Plant

- N+1 Water Cool Chillers (WCC) with 2N active chilled water distribution paths

CRAC

- N+2 design (2 groups of 6+1 CRAC)
- CRAC units are supplied from dual water-feed distribution ring (dual coils configuration)

PROTECTION SYSTEMS

Building and Data Center Security

- 24 x 7 security guards
- 24 x 7 facility management team
- 24 x 7 NOC monitoring at 6/F control center

Surveillance Monitoring

- 24 x 7 CCTV surveillance camera with digital recording (90 days record for data halls)
- Dedicated CCTV surveillance camera

Access Control

- Access card/ fingerprint identification/ PIN
- Access log and report up on request
- Zone or cage access control
- Sign in/out at G/F reception
- Dedicated man-trap and anti-tailgating system for data halls

ELECTRICITY

Power Availability

- Dual CLP 132/11KV power substations
- Two power feeds from different riser routes
- For each data hall, 2 x 1500KW power capacity is provided from different UPS system
- Power system redundancy: 100% for server load
- UPS battery backup time: 15 minutes at full load

Power Connection

- Dual power distribution feeders to each rack
- 2 x 32A DP commando sockets per rack
- PDU with power monitoring system
- Power quality monitoring

Voltage

- 220V/380V, 50Hz

UPS

- 2N design, 2kVA~6kVA per rack

Generator

- Generator: N+1
- 7 x 2,250 KVA HV generators (Phrase I)

Backup Diesel

- At least 12 hours full load
- 3 x 60,000L underground fuel tanks
- Diesel refuel mechanism is arranged with oil company (within 2 hours delivery)

About PCCW Solutions' Data Center

PCCW Solutions is a leading IT services company in Hong Kong and mainland China, with more than 20 years of experience in the provision of data center services in Hong Kong and mainland China. Our data centers are accredited with ISO 27001 information security management, ISO 20000 IT service management, ISO 9001 quality management, ISO 14001 environmental management accreditation and PCI-DSS Security Standard. Some of our data centers attained LEED Platinum Certificate and Uptime Institute Tier III Design and Construction Certificate. All these accreditations demonstrate PCCW Solutions' high level of security, high quality of service and environmental management on data center services.

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