

MCX10 (KWAI CHUNG) DATA CENTER

Premium Flagship Data Center

Powerbase MCX10 Data Center is the flagship facility of PCCW Solutions at Kwai Chung, with an array of world-class features plus a cutting-edge broadband network. With 20 years+ experience in data center services, we design and deploy data center services based on your specific requirements with proven expertise and methodologies, quickly respond to your business needs.

In addition to the MCX10 Stage 1 facility (3/F-10/F, 15/F), the expanded Stage 2 facility (11/F-14/F) was designed to cater the needs of enterprises which demand for a large number of racks in a timely manner.

World-Class Infrastructure

- ▲ Robust Tier III architecture design & construction
- ▲ Highest standards of reliability, security, efficiency and quality
- ▲ Stable infrastructure and optimal resilience in any critical situation
- ▲ Dual 100% uninterruptible power source
- ▲ Multiple back-up diesel generator units
- ▲ Stringent security system: multiple trap doors, electronic card locks, advanced biometric devices, locked cabinets

Comprehensive Value Added Services

- ▲ Data center design & build
- ▲ Co-location
- ▲ Managed services
- ▲ Network services
- ▲ Business continuity
- ▲ Disaster recovery

Best Practices and Industry Standards



- ▲ Uptime Institute Tier III Design
- ▲ Uptime Institute Tier III Construction
- ▲ LEED Platinum certified in Green Building (1st in HK)
- ▲ ISO 20000 certified in IT Service Management
- ▲ ISO 27001 certified in Security Management
- ▲ ISO 9001 certified in Quality Management
- ▲ ISO 14001 certified in Environmental Management
- ▲ PCI DSS in Data Security
- ▲ TVRA Risk Assessment
- ▲ CMMI Level 5

Premium Data Center at Prime Location

- ▲ 5 minutes' walk from the nearest MTR station
- ▲ 15 minutes' MTR ride from Central
- ▲ 20 minutes' drive from Hong Kong International Airport
- ▲ 30 minutes' drive from Shenzhen Bay Port

World-class Data Center Specifications

DATA CENTER AREA

Total gross floor area: 266,000 sq ft

- Stage 1 (3/F-10/F, 15/F) gross floor area: 166,000 sq ft. 2500+ racks capacity
- Stage 2 (11/F-14/F) gross floor area: 72,600 sq ft. 1300+ racks capacity

Raised floor

- 600mm raised floor height
- 600mm x 600mm panel size

Headroom

- 4.87m slab to slab
- 4.3m slab to beam

Floor loading

- 14 kPa uniformly distributed load

Telecoms facilities

- 2 meet-me rooms per floor
- Dual risers with network diversity
- Carrier neutral

Amenities

- 2 passenger and 4 cargo lifts
- Loading bays on ground floor
- Parking on a shared basis
- Dry pantry & rest area
- Conference room (by reservation)
- Cloud video conferencing service
- Business Resumption Center

COOLING SYSTEMS

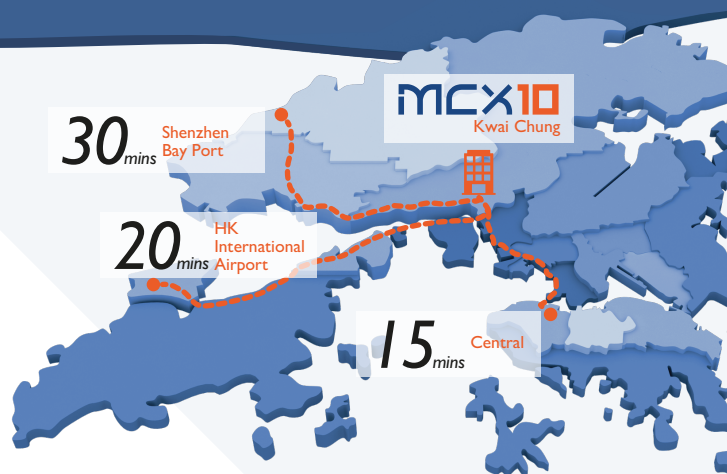
MVAC

- CRAC units in N+1 configuration
- Supply air temperature control
- Ambient temperature: 18°C - 24°C
- Humidity: 35% - 70%
- Entire cooling system backed up by diesel generators

PROTECTION SYSTEMS

Security system

- Two-factor door access control (proximity card reader & biometric)
- 24/7 CCTV surveillance with local & remote monitoring
- 24/7 onsite security officers



ELECTRICITY

Utility supply

- Stage 1: 16 x 2,000 kVA transformers
- Stage 2: 8 x 2,000 kVA transformers
- 2N design transformer
- Power supply from dedicated transformers for UPS and cooling equipment
- Dual main power sub-stations

UPS

- 2N configuration
- At least 15-minute battery backup time
- N Strings of batteries

Diesel generator

- Stage 1: 12 generators range from 2,000 kVA to 2,250 kVA in 2+1 resilience design
- Stage 2: 5 x 2,250 kVA generators in 4+1 resilience design

Oil tank

- Minimum of 12 hours' generator fuel storage
- Refueling takes place within 2 hours to ensure continuous generator operation

DETECTION SYSTEMS

Building management systems (BMS) – local and remote 24/7 status monitoring for:

- Chiller plant
- Power supply system
- Room temperature & humidity
- Water leakage detection
- Access control
- CCTV

Fire detection/suppression system

- FM200 fire suppression system in data center & facility areas
- Very Early Smoke Detection Apparatus (VESDA)
- CO2 fire extinguishers installed in key areas
- Thermometer, hygrometer & smoke detector in data center areas
- Fire alarm with direct connection to local fire service stations

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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