

01 Specification

Building Features

A Carrier Neutral IDC in TKO Industrial Estate
Design and construct to accommodate Tier IV-ready requirements
Total Gross Floor Area for campus 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 meter

Floor Loading

Data Center: 12 KPA

Rack Capacity

250 Standard Racks 600mm (W) x 1200mm (D) x 2300mm (H) per data hall (52U or 47 U)

02 Security & NOC

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

03 Telecommunications

Fixed Network connectivity to building

PCCW, Hong Kong Broadband, Towngas, New World Telecom, Hutchison Global Communications Limited, TraxComm Limited, Wharf T&T, Telin, Telekom Malaysia, TIGC and Tawasul.

Building Lead-in

Dual lead-in for Telecom Cable access

Dual centralized Main Distribution Frame (MDF)
Dual centralized Fixed Telecom Network Service (FTNS) area – “Meet-Me-Room”,
for telecom carrier interconnection

04 Power

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 min 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, 6KW per rack.

Generator

Generator: N+1
7 x 2,250 KVA HV generators

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)

05 Other Facilities

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 oor)
Meeting rooms
NOC for 7x24 network management and monitoring, fault reporting
Dedicated Staging Room & Storing Room
06 Air Conditioning System

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 conjugation)

SHORT DESCRIPTION

China Unicom (Hong Kong) Global Center is the first and largest overseas integrated telecommunications facility of Chinese operator, well positioned to deliver total global communication solutions, strong network connectivity as well as cloud computing technologies and innovative information and communications technology (ICT) services for global carriers and customers from private and public organizations in Hong Kong, Mainland China, Asia Pacific and beyond.

Leveraging on Hong Kong's geographical advantage and well-built infrastructure, the new Tier III certificated facility is designed and built in accordance to international standards with 99.99% site availability and high operating efficiency to satisfy customers with the most stringent needs and customization requirements.

With a land space of 1.5 hectares, the Global Center is located at the Tseung Kwan O Industrial Estate in close proximity to the Submarine Cable Landing Point.

HIGHLIGHTS OF CHINA UNICOM GLOBAL IDC

- 1) First and largest overseas integrated telecommunications facility of Chinese operator
- 2) Tier III Certification of Design & Construction by Uptime Institute
- 3) High power and cooling capacity, high power density (6KW per rack in average)
- 4) The LEED Green Building Rating

System-Gold Rating

- 5) ISO27001
Information Security
Management System
- 6) Co-locating with Submarine
Cable Landing Station