



PCCW Global's MCX10 data centre in Hong Kong

About PCCW Global

PCCW Global is the international operating division of HKT, Hong Kong's premier telecommunications service provider, which is majority-owned by PCCW Limited. Covering more than 3,000 cities and 150 countries, the PCCW Global network supports a portfolio of integrated global communications solutions which include Ethernet, IP, fibre and satellite transmission solutions, international voice and VoIPX services, managed network & security services and our expanding

"as-a-service" solutions including OTT video and Unified Communications. PCCW Global is headquartered in Hong Kong, and maintains regional centres in Belgium, China, France, Greece, Japan, Korea, Singapore, South Africa, the United Arab Emirates, the United Kingdom and the United States of America. To learn more about PCCW Global, please visit www.pccwglobal.com.

World-class infrastructure offers high power capacity and availability

The MCX10 data centre is based on robust Tier 4-ready architecture and was built to the highest standards of reliability, security, efficiency and quality. The facility has attained Tier III Design and Construction certification from the Uptime Institute, as well as LEED Platinum accreditation for commitment to the green standards. In any critical situation, infrastructure stability and resilience are maintained by virtue

of a dual 100% uninterruptible power source and multiple diesel generator units. The facility is also equipped with high power capacity. MCX10 is ideal for housing the kind of hyper-scale computing platforms required by CSP, ICP, OTT and eCommerce companies seeking to cope with ever-increasing IT workloads.

Rigidly reliable yet flexible connectivity

MCX10 is connected globally. Customers have the option of choosing from a portfolio of integrated global communications solutions to meet their international connectivity needs throughout Greater China and the rest of the world. A local-

loop service is also available to provide low-latency digital data paths to other Hong Kong-based data centres and Internet exchanges.

Flexible provisioning of infrastructure and facilities

Our comprehensive provisioning process satisfies a variety of design-to-build requests. This is made possible because MCX10 has the capacity to customize layouts and the way dedicated facilities are utilized, as well as authentication and security

measurement systems. MCX10 is the total solution of data centre and colocation with supporting of remote hands, smart hands and managed services.

MCX10's world-class data centre specifications

Data Centre Area	Electricity
<p>Total data centre area: 202,000 sq ft</p> <p>Raised floor</p> <ul style="list-style-type: none"> • 600mm raised floor height • 600 x 600 (mm) panel size <p>Headroom</p> <ul style="list-style-type: none"> • 4.87m slab to slab • 4.3m slab to beam <p>Floor loading</p> <ul style="list-style-type: none"> • 14 kPa uniformly distributed load <p>Telecoms facilities</p> <ul style="list-style-type: none"> • 2 meet-me rooms per floor • Dual risers with network diversity • Carrier neutral <p>Amenities</p> <ul style="list-style-type: none"> • 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-based video-conferencing service • Business resumption centre 	<p>Utility supply</p> <ul style="list-style-type: none"> • 16 x 2,000kVA transformers • 2N design transformer • Power supply from dedicated transformers for UPS and cooling equipment <p>UPS</p> <ul style="list-style-type: none"> • 2N configuration • At least 15 minutes' battery back-up time • N Strings of batteries <p>Diesel generators</p> <ul style="list-style-type: none"> • 12 generators range from 2,000kVA to 2,250kVA • 2+1 resilience design <p>Fuel tank</p> <ul style="list-style-type: none"> • Minimum of 24 hours' generator fuel storage • Refueling takes place within 2 hours to ensure continuous operation of generators
Cooling Systems	Detection Systems
<p>MVAC</p> <ul style="list-style-type: none"> • CRAC units in N+1 configuration • Ambient temperature: 22°C ± 2°C • Humidity: 55% ± 10% • Entire cooling system backed by diesel generators 	<p>Building Management Systems (BMS) – local & remote 24/7 status monitoring for:</p> <ul style="list-style-type: none"> • Chiller plant • Power supply system • Room temperature and humidity • Water leakage detection • Access control • CCTV
Protection Systems	<p>Fire detection/suppression system</p> <ul style="list-style-type: none"> • FM200 fire suppression system in data centre & 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
<p>Security system</p> <ul style="list-style-type: none"> • Two-factors door access control (proximity card reader & biometric) • 24/7 CCTV surveillance with local & remote monitoring • 24/7 onsite security officers 	