PCCW ICT

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MCX GD1
Data Center
MCX GD1 数据中心

CREATING THE WORLD-CLASS DATA CENTER

PCCW Solutions MCX GD1 Data Center, located at Science City, Guangzhou, China, has been in service since Q3, 2008 with a total gross equipment area of more than 1,600 square meter. The design of this Data Center is based on our expertise of 20 years of solid experience in Data Center services, providing a pre-constructed, environmentally fit, carrier-class space for equipment accommodation.

The global awards and certifications we have received throughout the years, including ISO 20000 IT Service Management Standard and ISO 27001 Information Security Management System , have proven our ability in offering the best information technology infrastructure and expertise in planning, building and operating top notch data center are unrivalled in the territory.

Highlights of this data center building:

- The building is located in an industrial zone whereas power supply infrastructure was designed and built for heavy electricity demand. The selected location is ideal for the data center business, which demands high power availability and feasibility to expand to cope with dynamic business environment.
- The building was built upon a flat grounding which provides a good structure in heavy floor loading.

We offer the following Data Center features

Data Center Area

Total Data Center area of 2,300sq.m.
- 1,600sq.m. of rentable area
- 700sq.m. of Network Operation Center

Raised floor
- 460mm raised floor height
- Panel size in 600mm X 600mm

Headroom
- Slab to Slab 3.9 Meter

Floor loading
- 7.5 KN uniform distributed load

Telecom facilities
- Dual Telecom riser ducts

Network connectivity
- The building locates within the network hub for the largest network providers in China including China Telecom and China Unicom.

Protection Systems

Fire safety equipment
- Smoke detectors are evenly distributed below raised floor and ceiling in data center area

Fire suppression
- FM200 gas suppression system is installed in data center area
- Pre-action sprinkler system is installed in service corridor outside data center area
- CO2 fire extinguisher are provided

Electrical

Utility supply
- One primary 2500kVA transformer and one standby 2500kVA transformer are fed from dual power substations
- Power supply is provided from transformers to UPS and E&M facilities

Diesel generator
- Each 2500kVA transformer is backed up by two 2000kVA generators

UPS
- 6 sets of 400kVA UPS are configured in 2N configuration with 3 sets on each side
- 30 minutes battery backup time for UPS

Oil tank
- Minimum 6 hours fuel oil storage for all generator
- Oil will be refueled within 6 hours for continuous operation of generators

Cooling System

MVAC
- All CRAC units are refrigerant type
- CRAC in (3+1) configuration
- Ambient temperature: 22ºC ± 2ºC
- Humidity: 55% ± 10%

Refrigerant pipe
- Dual pipe system

Chiller power
- Backup by generator

打造世界级数据中心

电讯盈科企业方案的MCX GD1数据中心位于中国广州科学园，于2008年第三季度开始投入服务，设备托管使用面积净值可达到1,600平方米。此数据中心是基于我们在数据中心服务行业近20年的丰富经验所设计建造，为您提供具有专业建造水平，达到绿色环保以及国际数据中心标准的设备托管空间。

多年来我们屡获国际和地区的奖项和认证，如ISO 20000 信息技术服务管理认证和ISO 27001 信息安全管理系统认证，这些荣誉见证了我们在提供最佳电子商务基础设施方面的经验，也证明了我们在设计、建造以及运营高水平数据中心的能力是亚洲首屈一指。

选择MCX GD1数据中心大楼的理由：

- 此大楼位于工业区。基于高电力需求设计的电力供应设施，能够为数据中心提供充足、可靠的电力保障，以满足不断变化的业务环境的需求。
- 此大楼地基平坦，为较大的楼层承重提供非常好的结构。

我们为您提供下列数据中心设施

数据中心

数据中心总面积达到2,300平方米
- 设备托管使用面积净值可达到1,600 平方米
- 监控中心面积700 平方米

活动地板
- 高度：460 毫米
- 地板尺寸：600 X 600 毫米

楼层高度
- 楼板至楼板 3.9 米

结构承重
- 7.5KN 平均承重

电信设施
- 双电信管道

网络连接
- 大楼位于国内最大的两家电信运营商中国电信和中国联通的网络枢纽

安保系统

灭火设备
- 提供二氧化碳灭火器
- 烟雾传感器配均匀配置于活动地板内和天花板上

灭火系统
- 数据中心内部区域配备FM200 气体灭火系统
- 数据中心外部区域服务走廊内配备预处置自动喷水灭系统
- 二氧化碳手提灭火器

电力

电力供应
- 由两个独立变电站引入电力，经过一台2500KVA主变压器和一台相同2500KVA变压器提供双路电力供应
- 电力经过变压器为UPS和电子和机械设备供电

柴油发电机
- 每台2500KVA 变压器都有两台2000KVA 发电机提供后备电源

UPS
- 6套400KVA UPS 2N 完成备份设计，每边3套
- UPS电力备份时间：30 分钟

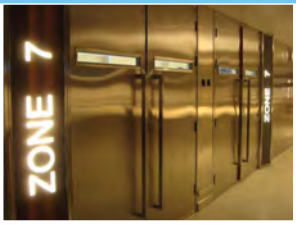
储油供应
- 每个发电机提供至少6小时燃油储备
- 8小时内提供燃油补充，并持续不断供应

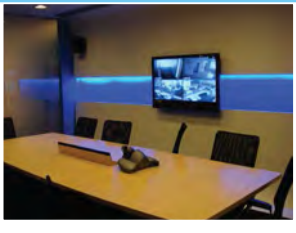
制冷系统

空调系统
- 每个CRAC 设备都是制冷型空调系统
- CRAC (3+1) 配置
- 温度 : 22°C ± 2°C
- 湿度 : 55% ± 10%

制冷管道
- 双制冷管道系统

制冷电源
- 配备后备发电机








INTERNATIONAL BEST PRACTICE AND ACCOLADES

PCCW Solutions holds a proven track record in data center services. Our best practices are widely recognized by international organizations that measure and set standards for the industry:

- CMMI Level 5 for Software Engineering
- ISO 27001 Information Security Management System
- ISO 9001 Quality Management Standard
- ISO 20000 IT Service Management Standard

国际质量认证

电讯盈科企业方案在数据中心服务方面拥有丰富经验，服务质量更得到国际同业的认同，荣获多项专业认证：

- 应用软件开发认证第五级（CMMI Level 5）
- ISO 27001 信息安全管理系统认证
- ISO 9001 质量管理认证
- ISO 20000 信息技术服务管理认证

YOUR STRATEGIC I.T. PARTNER

The MCX GD1 Data Center offers a robust Tier III+ class data center infrastructure and facilities with the following highlights:

- An area for hosting over 500 cabinets in MCX GD1 Data Center (Located on the 11th floor, Tianfeng Road, Guangzhou Science City).
- Most major facilities are configured with 2N configuration up to transformers level including power substations. This provides a data center with full resilience to any critical situation.
- The design of the data center is able to support up to 3kVA per rack.
- The building is built upon a flat grounding which provides a good structure in heavy floor loading .

您的IT策略性伙伴

MCX GD1数据中心是性能强健，并符合Tier III+ 级别建造及设备标准的数据中心，要点如下：

- 在MCX GD1数据中心内提供容纳超过500个机柜的空间（地址：广州科学城天丰路11号中国联通大厦）。
- 大多数主要的设备均享有冗余配置，如电力设施，在关键时刻，为数据中心随意切换提供冗余保障。
- 该数据中心的设计可以为每个机柜提供3kVA 电力供应。
- 楼层高度充裕，因此可建设较高的活动地板，这样大量冷空气可在活动地板下流通，使机房制冷能力更有效。

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