



Intelligent Data Center and Hybrid Cloud | Global Data Centers

# Hong Kong Data Centers

Empower your business  
with resilience and security

## The Power of the NTT Platform

NTT helps deliver data driven, connected, digital, and secure technology solutions to leading companies across the globe. As the world's largest ICT provider, NTT can offer clients capabilities and services beyond the walls of the data center brands.

### Our global reach means we can:

- Enable your business modernization and business transformation goals inside and outside the data center
- Help you innovate in new ways
- Reach new markets and find new business opportunities that data center only providers can't



#### Global recognition

A top 3 global data center service provider, with 500,000 sqm colocation space in over 20 countries.



#### Delivery capability

Global Tier-1 IP backbone provider, one of the largest in Asia.



#### Global reach and local intimacy

Global Network Service in over 190 countries/ regions.



#### Advanced facilities

Designed and built the largest portfolio of Tier 3 data centers in the world.

We currently operate two data centers in Hong Kong, the Hong Kong Financial Data Center and Tai Po Data Center. Combined they offer more than 10,000 racks of service space to support the digital transformation journey of the city.

# NTT Global Data Centers



\*As of Apr 2020

## High Accolades and Prestigious Awards



## What Customers Say



**Criteo**  
Co-founder & CTO  
Romain Niccoli

“With our continued focus on **delivering new options** for our clients such as our **mobile services and our new performance engine**, we are poised to capture the massive opportunity ahead of us. With **700+ new clients added in Q2 2015 alone**, we are growing fast and will look to expand into emerging markets such as **China, Russia and Latin America**. We are fully confident that our infrastructure with NTT will keep pace and support us.”



**NVIDIA.**  
NVIDIA Corporation  
APAC IT  
Infrastructure Manager  
Tony Chang

“**Business continuity** is critical for our company. The proven quality of NTT ICT services, together with its total data center solution for our **mission-critical applications and flexible service offerings** have been the key reasons for our selection.”

## Data Centers in Hong Kong

### Hong Kong Financial Data Center (FDC)

Located on a piece of company-owned land of 30,000 m<sup>2</sup> in Tseung Kwan O, the FDC is a purpose-built complex with two separate data center towers (FDC1 and FDC2) and one command and control tower.



#### FDC1

With over 3,000 racks of server space, FDC1 features sophisticated infrastructure design as well as exceptional power and cooling capacity that offer the highest level of redundancy, reliability and security for clients.

It is also the first data center in the region to adopt a modular design that allows highly-customizable hybrid tiering model. It gives clients total flexibility in choosing when they want to upgrade from Tier III to the most stringent Tier IV standard depending on their needs.

#### FDC2

Building on FDC1's robust foundation, FDC2 is the second data center tower, which is designed with innovative features to enhance clients' business performance and operational efficiency. It adopts the latest technologies such as cooling wall (front-flow cooling system with hot aisle containment), cooling battery (thermal energy storage system) and intelligent lighting system to support high density colocation, while achieving overall energy efficiency and cost optimization.

Meanwhile, it also adopts a big data analytics approach to data center life-cycle management, by integrating Building Information Modeling (BIM) tool with Data Center Management System (DCMS) to provide higher visibility and data visualization via centralized Virtual Data Center (VDC) Management Portal.

The **FDC** is a purpose-built complex with **two separate data center towers (FDC1 and FDC2) and one command and control tower.**

#### Highlight:

- Tier IV ready infrastructure
- 70,000 m<sup>2</sup> total gross floor area and over 7,000 racks of server space
- Dedicated purpose-built data center premises
- 100% uptime service level
- Modular design and hybrid tiering model
- High power and cooling capacity, high power density
- Eight levels of security access control
- Co-locating with ASE cable landing station and NTT Tier-1 Global IP Backbone
- Certified for green design

#### Certifications:

- Management & Operations (M&O) Stamp of Approval from The Uptime Institute
- ISO 27001 Information Security Management System (ISMS) Certification from BSI (British Standards Institution)
- ISO 9001 Quality Management System Certification from BSI (British Standards Institution)
- ISO 50001 Energy Management Systems Certification from BSI (British Standards Institution)<sup>2</sup>
- ISAE3402 International Standard on Assurance Engagement from the International Auditing and Assurance Standards Board (IAASB)
- Compliance of Payment Card Industry Data Security Standard (PCI DSS) Requirements from Evolution Security Consulting Limited (Qualified Security Assessor of PCI Council)
- Gold Certification under the LEED 2009 for Core & Shell Development (LEED-CS 2009) Rating System from the U.S. Green Building Council (USGBC)<sup>1</sup>
- Platinum Certification under the LEED 2009 for Core & Shell Development (LEED-CS 2009) Rating System from the U.S. Green Building Council (USGBC)<sup>2</sup>
- Compliance of Threat Vulnerability & Risk Assessments (TVRA) from Monetary Authority of Singapore

<sup>1</sup> For FDC1 only

<sup>2</sup> For FDC2 only

## Tai Po Data Center

Tai Po Data Center is a 7-floor dedicated data center designed for high availability and business continuity. Its integrated data center management framework ensures that the operations are continuously optimized.



### Highlight:

- Tier III+ infrastructure
- 20,000 m<sup>2</sup> total gross floor area and over 3,000 racks of server space
- Dedicated purpose-built data center premises
- 100% uptime service level

- High power and cooling capacity
- Multiple levels of security control
- Co-locating with NTT Tier-1 Global IP Backbone
- Certified for green design

### Certifications:

- Management and Operation (M&O) Stamp of Approval from the Uptime Institute
- ISO 27001 Information Security Management System (ISMS) Certification from BSI (British Standards Institution)
- ISO 9001 Quality Management System Certification from BSI (British Standards Institution)
- ISAE3402 International Standard on Assurance Engagements from the International Auditing and Assurance Standards Board (IAASB)
- Compliance of Payment Card Industry Data Security Standard (PCI DSS) Requirements from Evolution Security Consulting Limited (Qualified Security Assessor of PCI Council)
- Compliance of Threat Vulnerability & Risk Assessments (TVRA) from Monetary Authority of Singapore

**7-floor dedicated data center** designed for high availability and business continuity. Its integrated data center management framework **ensures that the operations are continuously optimized.**

## One-stop Data Center Solutions



### Business Resumption Center



### Professional Services

- Data Center Customization and Migration
- Smart Hand Services



### Managed Data Center Operation Services

- Green Disposal Service
- Tape Backup Management



### Connectivity

- IP Transit & Premium Internet Connectivity
- Inter-Data Center Connectivity
- Cloud Connect Service (Megaport)
- Global Leased Line Service (IPLC/IEPL)
- ASE Cable Landing Station in FDC
- Hong Kong and Japan Internet Exchanges in FDC



### Cloud Service

- Private Cloud
- Hybrid and Multicloud
- Cloud Storage
- Cloud Backup

## Specifications

		Hong Kong Financial Data Center (FDC)		Tai Po Data Center
		FDC1	FDC2	
<b>Location</b>		Tseung Kwan O		Tai Po
<b>Building</b>		Dedicated purpose-built data center premises owned by NTT		
<b>Rack</b>	Rack Capacity	7,000+		3,000+
	Rack Space Option	Open Area, Caged Area, Private Suite		
	Power Density	Max 21 kVA/rack	Max 24 kVA/rack	Max 12 kVA/rack
<b>Power</b>	Utility Power	Dual power substations through diversified paths		
	Generator	N+1, continuous rating	N + Catcher, continuous rating	N+1, prime rating
	UPS	2N	N + Catcher	2N
	UPS Power Distribution	2N Active with STS		
	Fuel Distribution	2N, PLC control		N
	Fuel Storage	36 hours at full load	24 hours at full load	24 hours at full load
<b>Cooling</b>	CRAC	N+1, down flow	N+1, front flow, UPS powered	N+1, down flow
	Chiller	N+1 Water Cooled (Upgradable to 2N, Water Cooled + Air Cooled)	N+1, Water Cooled, PLC control (Upgradable to 2N, Water Cooled)	N+1 (Water Cooled + AirCooled)
	Makeup Water Storage	36 hours at full load	24 hours at full load	24 hours at full load
	Chilled Water Distribution	2N, UPS powered	2N, UPS powered, PLC control	2N, UPS powered
	Continuous Cooling	10 minutes cooling battery at full load	42 minutes cooling battery at full load, PLC control	N/A
<b>Security</b>	24/7 security operation center and security patrol, CCTV surveillance camera			
	Multiple physical access security checkpoints with anti-tailgating mantraps			
	Multiple-factors authentication access control			
	Impact resistant fence wall with intrusion detection & road blocking device		Impact resistant fence wall	
<b>Fire Protection</b>		VESDA System (Very Early Smoke Detection Apparatus), FM200 Gas Suppression System and Double Interlock Type Pre-Action Sprinkler System		
<b>Network</b>	Carrier Neutral			
	Multiple Local Carrier Entry from diversified paths			
	Dual Entrance Room, Local Carrier Room, Meet-me Room			
	NTT Network Node			
<b>Service Support</b>	Dedicated in-house 24/7 facility management and service operation support team			
	In-house 24/7 customer service support team and hotline			
	In-house expertise on facility, network, system, security and project management			
<b>Certificate/Compliance</b>		ISO/IEC 27001, ISO 9001, ISAE3402, PCI-DSS, LEED-CS 2009 Gold, Threat and Vulnerability Risk Assessment (TVRA) report, Uptime Institute's Management and Operations (M&O Stamp of Approval)	ISO/IEC 27001, ISO 9001, ISO 50001, ISAE3402, PCI-DSS, LEED-CS 2009 Platinum, Threat and Vulnerability Risk Assessment (TVRA) report, Uptime Institute's Management and Operations (M&O) Stamp of Approval	ISO/ IEC 27001, ISO 9001, ISAE3402, PCI-DSS, Threat and Vulnerability Risk Assessment (TVRA) report, Uptime Institute's Management and Operations (M&O Stamp of Approval)

### For more information:

Tel: (852) 3793 0288 | Fax: (852) 2918 0800 | Email: ap.hk.ask@global.ntt



**Together we do great things**