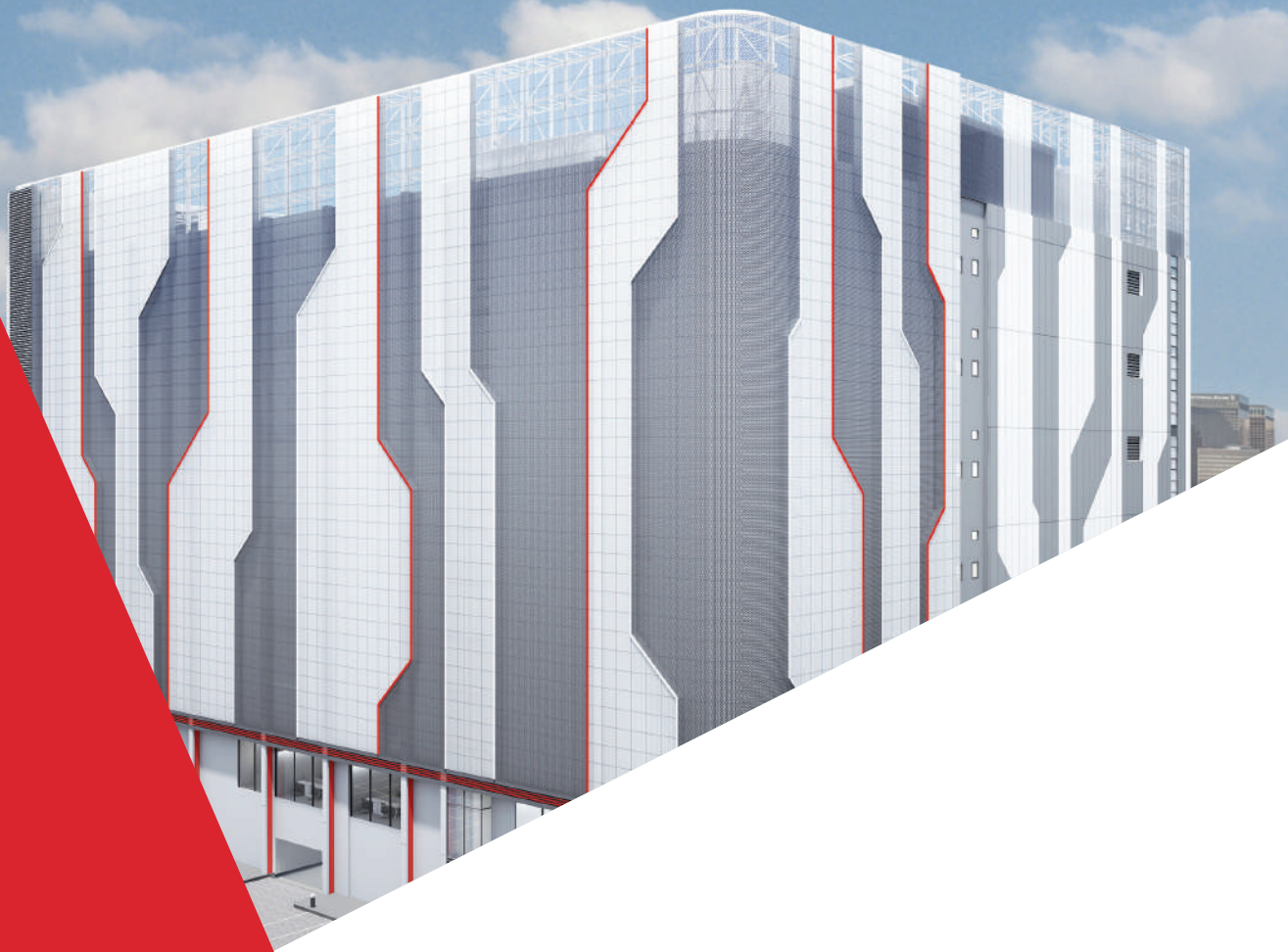




STT BANGKOK 1

STT Bangkok 1 is a carrier-neutral data centre, built to the highest industry standards and strategically located in Hua Mak. As part of the STT Bangkok hyperscale data centre campus, it is NVIDIA DGX-Ready and supports advanced AI workload with immersion cooling and direct-to-chip cooling technologies.

BUILDING OVERVIEW

STT Bangkok 1, part of the STT Bangkok Data Centre Campus, offers liquid cooling solutions tailored for high-density and AI workloads requiring superior thermal management.

Location	1 Soi Ramkhamhaeng 28, Huamak Subdistrict, Bang Kapi District, Bangkok Thailand 10240
Gross Floor Area	Over 30,000 sqm (>300,000 sqft)
Net Lettable Area	7,600 sqm (82,000 sqft)
Flight Path	No
Flood Way	No
Slab-to-slab Height	Up to 6.2m
Floor Loading	15KN/sqm (1,500kg/sqm)
Loading Bays	2
Staging Room (per floor)	1
Passenger Lifts (1,600kg)	2
Cargo Lifts (5,000kg)	2

FIRE DETECTION AND SUPPRESSION

- High Sensitive Smoke Detector System (VESDA)
- Gas Suppression System IG-100 (Nitrogen)
- 2hr fire-rated doors and partitions
- 24x7 decentralised fire alarm monitoring system

POWER

- 2 diverse and redundant utility power supplies and sub-stations up to 23MW of IT Load
- 2N Uninterrupted Power Supply (UPS)
- Mechanical – N+1 / N+25%
- N+2 Emergency Generators
- Concurrently maintainable
- Underground fuel tank providing up to 27hrs of support at full load
- Onsite 70MVA substation from two main stations, enhancing power reliability, stability, and efficiency

CONNECTIVITY

- Carrier-neutral
- 2 main distribution frame (MDF) rooms
- 2 meet-me rooms (MMR)
- 3 diverse communication routes with 4 building entry points
- Access to multiple carriers, internet exchange (IX), internet service and cloud service providers

CONTACT

E info@sttelemediagdc.com **W** sttelemediagdc.com

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COOLING

- Design PUE of 1.4
- Resilient Chilled Water Plant with Cooling Towers with N+1 configuration
- Chilled Water Buffer Tank catering continuous cooling at full load
- High efficiency and diverse chilled water pipe design
- Service CRAH corridor with 2N power supply and N+25% resiliencies
- 48hrs of make-up water storage
- Advanced cooling solutions including Direct-to-Chip cooling and immersion cooling

SECURITY

- Anti-crash boundary wall with perimeter protection against vehicle-borne improvised explosive device (VBIED)
- Perimeter wall with BRC fencing and barb mesh
- Comprehensive intrusion detection, with anti-climb fencing and K12 rated vehicle crash barriers
- 24x7 CCTV surveillance of indoor and perimeter with recording in HD resolution, fixed with pan-tilt-zoom (PTZ) video analytics and 90 days playback
- 24x7 on-site manned guard and controlled site access with 2-factor authentication by pre-authorisation
- Contactless card access and biometric access control system

CERTIFICATIONS & COMPLIANCE

- Uptime Tier III (Facility)–Data hall 3-1
- Uptime Institute Tier III (Operations) for Data hall 3-1
- LEED Gold
- ISO 20000
- ISO 22301
- ISO 27001
- ISO 50001
- SS 564
- NVIDIA DGX-Ready
- TVRA assessment
- PCI DSS