



STT Singapore 1

STT Singapore 2

STT Singapore 3

STT SINGAPORE 1

STT Singapore 1 is part of STT GDC's flagship data centre campus located in the northeast of Singapore, at the Defu Industrial Estate that is undergoing a redevelopment into a green and sustainable park of tomorrow. The campus offers opportunities for customers to expand seamlessly across data centres, without duplication of connectivity and management overheads.

BUILDING OVERVIEW

Purpose-built five storey building with reinforced concrete super-structure

Location	21 Defu Avenue 1, Singapore 539539
Gross Floor Area	150,584 sqft (13,982 sqm)
Net Lettable Area	52,304.96 sqft (4,859.29 sqm)
Flight Path	No
Slab-to-slab Height	Up to 5.95m
Floor Loading	Up to 15KN/m ²
Loading Bays	2
Staging Room	1
Passenger Lifts (1,360kg)	2
Cargo Lift (4,000kg)	1
Service Lift (1,835kg)	1

FIRE DETECTION AND SUPPRESSION SYSTEM

VESDA

Pre-Action Sprinkler System and Gas Suppression System (NOVEC)

2hr fire-rated doors and partitions

24x7 decentralised fire alarm monitoring system (DECAM) that links directly to an external fire monitoring agency

POWER

2 diverse and redundant 22kV utility power supplies and sub-stations

Up to 13 MW of IT Load

2N Diesel Rotary Uninterrupted Power Supply (DRUPS)

Concurrently maintainable

Fault tolerant

Separate essential source backup generator

Underground fuel tank providing up to 36hrs of support at full load

CONNECTIVITY

Carrier-neutral

2 main distribution frame (MDF) room

2 meet-me-room (MMR)

2 diverse fibre point of entry to site

2 diverse risers

Direct access to multiple carriers, internet service and cloud service providers

COOLING

Design PUE of 1.4

2N resilient Chilled Water Plant with 2N Cooling Towers

- Designed with Chill Water Storage/Buffer Tank catering continuous cooling at full load during power failure (min. 5 mins)

- Oversized pipework to reduce pumping energy for efficiency

- Fault tolerant and no risk of contamination in 1 system impacting other

2N diverse chilled water piping loops

Service corridor with dual coil CRAH with 2N power supply of up to N + 25% resiliencies

Backup Water System: 2 x 300,000 litre make-up water tanks (also used for fire suppression)

Domestic water supply with make-up water system and NEWater pipeworks readiness

SECURITY

Anti-crash boundary wall with perimeter protection against vehicle-borne improvised explosive device (VBIED)

Perimeter wall with BRC fencing and barb mesh

Anti-climb fencing at front gate

Perimeter intrusion detection

K12 rated vehicle crash barriers

24x7 CCTV recording at 1080p resolution, fixed with pan-tilt-zoom (PTZ) video analytics and kept for 90 days

Perimeter surveillance with day and night cameras fixed with Pan-Tilt-Zoom (PTZ) Video Content Analytics (loitering and abandoned object detection)

24x7 on-site manned guards

24x7 controlled site access with 2-factor authentication by pre-authorisation

Contactless card access system with RFID real-time movement tracking within building and biometric access control system

CERTIFICATIONS & COMPLIANCE

Uptime Institute Tier III (Design) compliant

BCA-IMDA Green Mark Platinum (Existing Data Centres V1.1)

LEED 2009 Core and Shell Development Gold

ISO 27001: 2013

ISO 45001: 2018

ISO 50001: 2018

ISO 22301: 2019

SS 564: 2020

TVRA compliant

PCI DSS

CONTACT

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