



STT DEFU 1

STT Defu 1 is located in the east of Singapore, in the Defu Industrial Estate that is undergoing a redevelopment into a green and sustainable industrial park of tomorrow. STT Defu 1's location is also prime for data centre operations with close proximity to the cluster of data centres in Kim Chuan area.

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 | 62,412 sqft (5,795 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 12MW 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

2N main distribution frame (MDF) room

2N meet-me-room (MMR)

2N diverse fibre point of entry to site

2N diverse risers

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

CONTACT

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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

LEED Gold

SS564

ISO 27001

BCA-IDA Green Mark Platinum
(New Data Centre V1.1 & Non-Residential Building)

PCI DSS

TVRA compliant
