STTGDC JHB1

STTGDC JHB1 is part of the STTGDC Johor data centre campus strategically located 15km away from Singapore, providing regional and global businesses with significant accessibility and connectivity to an international business and interconnection hub. STTGDC JHB1 is built to support various liquid cooling technologies with scalability for large GPU accelerated computing clusters, ideal for diverse AI workloads across industries.



Building overview

STTGDC JHB1 is the first building within the STTGDC Johor data centre campus, which has a total development potential of 120MW of IT load.

Location	Nusa Cemerlang Industrial Park
Gross Floor Area	183,766 sqft (17,072.45 sqm)
Net Lettable Area	61,053 sqft (5,672 sqm)
Slab-to-slab Height	Up to 6m
Floor Loading	15 kN/sqm
Loading Bays	2
Staging Room	1
Passenger Lift (1,350kg)	1
Cargo Lift (5,000 kg)	1
Service Lift (2,500kg)	1

Fire detection and suppression

- Smoke detector and VESDA
- Pre-Action Sprinkler System
- 2hr fire-rated doors and partitions
- 24x7 centralised fire alarm monitoring system

Power

- 2 diverse and redundant 33kV utility power supplies
- Up to 16MW of IT Load
- Distributed Redundant Uninterrupted Power Supply (UPS)
- Underground fuel storage tanks providing at least 24 hours of support at full load
- Concurrently maintainable
- Fault tolerant

Cooling

- Design PUE of 1.3
- N+1 High Efficiency Air-Cooled Chillers with concurrently maintainable ring configuration
- N+2 Fan Wall Units

Connectivity

- Carrier-neutral
- 2 main distribution frame (MDF) rooms
- Up to 4 diverse fibre points of entry to site
- Access to multiple carriers, internet service and cloud service providers

Security

- Anti-climb perimeter fencing enhanced with perimeter surveillance and video content analytics
- 24x7 CCTV recording at 1080p resolution
- 24x7 on-site manned guards
- 24x7 controlled site access to data halls with 2-factor authentication
- Contactless card access system by pre-authorisation

Certifications and compliance

- TIA-942 Rated-3
- LEED Gold
- ISO 20000
- ISO 22301
- ISO 27001
- ISO 50001
- TVRA assessment
- DCRA assessment

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