STT MEDIAHUB

STT MediaHub is located in west of Singapore in the city's digital media hub, known as the One-North business park. One-North is a strategic development that is designed to host a cluster of world-class research facilities and business park space and to support the growth of Singapore's Biomedical Sciences, Info-Communications Technology, Media, Physical Sciences and Engineering sectors.

STTelemedia
Global Data Centres

BUILDING OVERVIEW

Purpose-built six storey building with post-tensioned and conventional reinforced beam and slab

Location	1 Media Link, Singapore 138552
Gross Floor Area	247,109.90 sqft (22,957.26 sqm)
Net Lettable Area	116,713 sqft (10,843 sqm)
Flight Path	No
Slab-to-slab Height	Up to 6m
Floor Loading	Up to 15KN/m²
Loading Bays	2
Staging Room	1
Passenger Lifts (1,630kg)	2
Cargo Lift (5,000kg)	1
Service Lifts (1,630kg)	2

FIRE DETECTION AND SUPPRESSION SYSTEM

VESDA and Addressable Fire Alarm System equipped with smoke detection

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 16.253MW of IT Load

2N Static Uninterrupted Power Supply (UPS) with 10 to 15 minutes of battery back-up

Concurrently maintainable

Fault tolerant

2N generator system supporting each floor

Underground fuel tank providing up to 24hrs 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 1.49 at full load

N+1 chilled water system with ring distribution supported by N+1 cooling tower

- Chilled water system incorporated with rapid start recovery mode and installed with optimisation programme
- All chilled water systems are genset supported
- Designed with chilled water storage/buffer tank and oversized pipework for 10min continuous cooling during power failure
- CRAH units equipped with ATS for continuous fan running

2N diverse chilled water piping loops

Service corridor with CRAH: up to N + 20% resiliencies

24hrs of backup water storage capacity for continuous operations

Dual water sources (domestic & NEWater) for make-up water system

SECURITY

K4 rated surface mounted rising step barrier at main vehicle entrance

Perimeter protection of K4 rated anti-crash bollards against vehicle-borne improvised explosive device (VBIED)

Reinforced walls and columns

24x7 CCTV recording at full HD 1080p resolution, 20 frame per second and 90-day continuous recording

Perimeter surveillance with day and night cameras with Video Content Analytics (loitering and abandoned object detection)

Explosive trace detection (ion mobility spectrometry) & undercarriage for vehicle screening

24x7 on-site manned and armed guards

24x7 controlled site access

Contactless card access system

Walk-through metal detector, X-ray screening system for human traffic and baggage screening

CERTIFICATIONS

ANSI/TIA-942-B: 2017 Constructed Facilities Rated-3 compliant

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

ISO 27001: 2013

ISO 45001: 2018

ISO 50001: 2018

ISO 22301: 2019

SS 564: 2020

TVRA compliant

CONTACT

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