

TIER IV DATA CENTRE

by **irix**

3N+1



irix Kuching 1 DC @Santubong is the first Tier IV Data Centre in Malaysia and is a carrier-neutral and green facility. Strategically located in Kuching, Sarawak, the **Tier IV Data Centre** offers direct international connectivity to Indonesia, Singapore, China, the Philippines, and beyond via the Batam-Sarawak Internet Cable System (BaSiCS).

Located together, our Cable Landing Station (CLS) and Data Centre are both certified by Uptime Institute as Tier IV facilities, meeting the highest global standards to ensure efficiency, security, and the long-term performance of customers' mission-critical data.

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE (ESG) CRITERIA

irix Kuching 1 DC @Santubong is a green facility and its location was strategically chosen to benefit from the State of Sarawak's ability to harness the predominantly renewable natural resources to develop hydroelectric power, which is the biggest contributor towards the state's power grid. Additionally, the Data Centre's advanced closed-loop chilling system means it is not reliant on external, nor additional water sources, minimising wastage.

irix Kuching 1 DC therefore maximises energy efficiency and minimises its environmental impact.



DESIGN CHARACTERISTICS

GENERAL

- Location : Kuching, Sarawak, Malaysia
- Tier Classification : Tier IV
- Service Availability : Zero Downtime
- Number of Racks : 300

POWER Low PUE Design

- Total site designed power capacity : 1.2 MW
- Guaranteed power supply mode : 2N
- Diesel generator mode : 3N+1
- Uninterrupted power supply (UPS) : 3N+1
- Power capacity per rack : 3kW – option to upgrade

CERTIFICATION Tier IV

- Uptime Institute : Tier IV Design (TCDD) 20 October 2021
- Upcoming : Tier IV Facility (TCCF) 25 February 2025

COOLING Closed-Loop System

- Water Usage Efficiency (WUE) : ZERO water wastage
- Cold aisle : Yes
- Standard Operating Temperature : 27° (Cold aisle)
- Airconditioning mode : 3N+1
- Relative Humidity level : 20% - 80%

FIRE DETECTION & SUPPRESSION

- Early warning smoke detection system : VESDA
- Fire suppression system : Inert gas (Nitrogen)
- Fire rating : 60 minutes

COMMUNICATION LINKS International and Domestic

- International access : Singapore, Hong Kong, Indonesia and Brunei
- Domestic access : Sarawak, Sabah and Peninsula Malaysia

PHYSICAL SECURITY

- 24x7 security : Yes
- Video surveillance : 52 cameras around the perimeter
- Archive log depth : 1 year
- Security layers : 6 layers
- Infrastructure monitoring : 24x7x365

CUSTOMER MEET-ME ROOMS

- Number of rooms : 2

SERVICES OFFERED

- Colocation
- Cable Landing Station
- Connectivity
- Internet Access
- Internet Exchange
- Value Added Services

