

TIER IV DATA CENTRE

by **irix**

3N+1



The **irix DC** in Santubong is the only Tier IV Data Centre in Malaysia and is a carrier-neutral and green facility. Strategically located in Kuching, Sarawak, **irix DC** offers direct international connectivity to Indonesia, Singapore, China, the Philippines, and beyond via the Batam-Sarawak Internet Cable System (BaSiCS), and the future South-East Asia Hainan - Hong Kong Express Cable System (SEA-H2X).

Located together with our Cable Landing Station (CLS), the Data Centre; certified by Uptime Institute as a Tier IV facility, meets the highest global standards, and ensures the efficiency, security, and long-term performance of customers mission critical data.

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE (ESG) CRITERIA

irix's Data Centre 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 Data Centre therefore maximises energy efficiency and minimises its environmental impact.



GENERAL

- Location : Kuching, Sarawak, Malaysia
- Total project area : 7204 M²
- Buildings and structures area : 2854 M²

SERVICE AVAILABILITY **Fault Tolerant**

- Rack arrangement approach : Modular
- Number of customer racks : 300 - with option to expand

POWER **Low PUE Design**

- Total site power capacity : 1.2 MW
- 1 Data Hall power capacity : 0.3 MW
- Guaranteed external power supply : 11kV
- Guaranteed power supply mode : 2N
- Diesel generator mode : 3N+1
- Uninterrupted power supply (UPS) : 3N+1
- Power capacity per rack : 3kW - with option to upgrade up to 6kW

CERTIFICATION **Tier IV**

- Uptime Institute : Tier IV Design (TCDD) Q3 2021
- Upcoming : Tier IV Facility (TCCF) Q4 2023
Tier IV Operations (TCOS) Q2 2024
- Upcoming Security : PCI DSS, ISO27001

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 National**

- International access : Direct to Singapore, Hong Kong, Indonesia and Brunei
- National access : Sarawak 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
- Capacity : 12 racks per room

SERVICES OFFERED

- Colocation
- Connectivity
- Internet Access
- Internet Exchange

