TECHNICAL SPECIFICATIONS

SC1 SUNSHINE COAST

About SC1 SUNSHINE COAST

No matter your location, growing business and scaling without friction requires highly interconnected and resilient infrastructure that's engineered, built and operated to the highest standards. Infrastructure that is flexible by nature and can be right-sized to support business requirements today, and into the future. Edge data centre solutions form a crucial part of the broader digital and business transformation strategy, as such Edge plays a strategic role in enabling successful business outcomes not only at the core, but at locations outside the metro region.

NEXTDC's SC1 regional data centre, located in the heart of Maroochydore delivers critical low-latency support to regional businesses, connecting them to the country's major networks and digital services providers across Australia. With a total planned capacity of 1MW, SC1 is engineered to support the highest levels of customer availability and is backed by NEXTDC's industry leading service guarantee of 100% uptime. Leveraging NEXTDC's core data centre platform, SC1 forms a new regional digital hub for the Sunshine Coast, enabling regionally positioned businesses to seamlessly integrate their technology to aaS providers and cloud platforms.

SC1 is connected to NEXTDC's extensive digital services ecosystem via the AXON interconnection services platform, enabling direct and secure access to the broader national digital services ecosystem, comprising over 730 technology partners and Australia's largest network of public cloud onramps for Microsoft, AWS, Google, IBM and Oracle.

Strategically located in proximity to critical telecommunications infrastructure, SC1 hosts the Sunshine Coast International Broadband Network ("SCIBN") Cable Landing Station. The SCIBN submarine cable connects to the 7,000km Japan-Guam-Australia South ("JGA-S") submarine cable. JGA-S is a fibre optic cable consortium that includes AARNet (Australia's Academic and Research Network), Google and RTI (global sub-sea cable operator).

BUILDING OVERVIEW

- Two Story building, total site area 1,220m^2
- Total technical space ~290m^2
- 84 rack capacity
- 1MW planned power capacity
- Modular construction

POWER

- Multiple power distribution units with minimum N+N redundancy
- Full N+1 main electrical infrastructure extending to N+N at power rail level
- 2 x 500VA FG Wilson backup diesel generators, with space for a third generator
- Minimum 18 hours onsite fuel supply

COOLING

- Cold aisle containment
- N+1 high efficiency roof mounted condenser
- N+1 in row cooling with UPS redundancy
- Leak detection systems on all critical infrastructure
- Average cold aisle temperature of 22 +/-5'C
- Average cold aisle relative humidity of 50% +/- 30%

SECURITY

- Individual credential checks prior to authorisation
- 24/7 security monitoring
- Two factor Biometric fingerprint security for data centre access
- Anti-cloning access card encryption
- Secure lift between floors
- Intruder-resistant glass and solid concrete walls
- Secure loading dock for deliveries
- CCTV coverage for all points of entry and critical infrastructure
- Secure and audited rack key access system
- 2.4m High security fencing, anti-scalable complete with anti-dig barrier

FIRE SUPPRESSION AND MONITORING

- VESDA fire detection
- Inert gas fire suppression
- Emergency warning systems throughout
- Mist suppression system in generator area
- Offsite monitoring by Queensland Fire and Emergency Services
- 24x7 365 DC infrastructure monitoring

TELECOMMUNICATIONS

- Diverse connectivity and underground cable pathways to the building
- Dedicated interconnect rooms for cable connections
- SC1 site hosts the SCIBN submarine cable
- Carrier Neutral with access to multiple carrier networks

CUSTOMER SERVICES

- Break-out area equipped with kitchen facilities, coffee and refreshments
- Guest Wi-Fi
- Crash Carts

CERTIFICATIONS

Certified System ™
Quality
ISO 9001

ISO 9001:2015 Quality Management System.

Certified System ™
Information Security
ISO 27001

ISO 27001:2013 Information Security Management System (ISMS).

Certified System ™
Environment
ISO 14001

ISO 4001:2015 Environmental Management System.

Certified System ™
OHS
ISO 45001
SAI GLOBAL

Climate Active
NETWORK MEMBER