

TECHNICAL SPECIFICATIONS

B2 BRISBANE



B2 Brisbane

The first data centre operator in the Southern Hemisphere to achieve a Tier IV Gold Certification of Operational Sustainability award, and the first Asia Pacific colocation data centre to receive Tier IV Certification of Constructed Facility (TCCF) from Uptime Institute, the world's leading independent data centre advisory and certification organisation.

B2 is strategically located in the Fortitude Valley, close to a major electrical substation and significant telecommunications infrastructure, B2 delivers much needed data centre capacity Brisbane organisations demand.

Acting as Brisbane's major hub for connectivity, B2 delivers access to the world's largest computing platforms and enables organisations to connect on-demand to a host of cloud services such as AWS, Microsoft Azure, Google Cloud, Oracle Cloud, IBM Cloud and Alibaba Cloud through AXON.

Surpassing all industry standards for security, performance, reliability, resiliency and energy efficiency, B2 showcases the latest innovations in data centre design, delivering technical excellence organisations require.

B2 at a glance

Technical space	Stage 1: 3,000sqm Stage 2: 3,000sqm
Total IT capacity	Stage 1: 6MW Stage 2: 6MW
Initial capacity	2MW
Target PUE	1.25 ¹ / 1.34 ²
Design standard	UTI Tier IV

1. Value relates to total energy consumption ratio during a full calendar year, dependent on load and supports a NABERS 5 star rating.
2. Value refers to best instantaneous power consumption ratio within a calendar year, dependent on load and optimal environmental conditions.



Quality
ISO 9001



Information
Security
ISO 27001



B2

NEXTDC'S SECOND GENERATION DATA CENTRE

TIER IV CERTIFICATION OF CONSTRUCTED FACILITY = FAULT TOLERANT

COOLING

- Hot aisle containment, no raised floor
- Stulz in-direct, free cooling CRACS paired with modular cooling tower infrastructure
- N+1 independent cooling systems, providing high levels of reliability and industry leading PUE of 1.34 (yearly average) or 1.25 (yearly lowest)
- 24 hours of water stored on-site (minimum)

ELECTRICAL

- Isolated Parallel Bus, supporting N+N delivery to the rack
- 1.5MW Pillar rotary UPS supported by Penske engines, supporting the entire site load
- 24 hours of fuel stored on-site (minimum), per engine

FIRE

- VESDA fire detection
- Inert gas fire suppression with low pressure release, on-site supply for two data hall-level events

SECURITY

- Access control and video surveillance
- Rack access control

EXPANSION

- 3,000 m² of data hall space available for 6MW of client load, with adjacent land to support further expansion
- All critical system components built and operated in N+1 mode – 100% uptime SLA

LOADING DOCK SUPPORTING LARGE SCALE DELIVERY OF IT EQUIPMENT

- Unpacking space, with trash removal
- Staging Rooms, pre-test before move to Data Hall
- Purpose built paths from delivery to Data Hall for rapid install and activation

FRONT OF HOUSE AND CONCIERGE

- Support for escorted access and tours
- Assistance with car parking and meeting rooms
- Small package receipt and dispatch
- 24/7 365 support on-site (if required)

CHILL OUT ROOM & MEETING FACILITIES

- War room IT migrations, work or take a break on-site
- Client meetings with NEXTDC support (if required)

B2 – A highly interconnected, seamless extension of B1

CARRIER AND VENDOR NEUTRAL

- Multiple street fibre connection pits and dual diverse Interconnect rooms
- Open access for all fibre operators, Carriers, ISPs, MSPs

NEXTDC CROSS CONNECT FOR PRIVATE CONNECTIONS TO THE ENTIRE ECOSYSTEM

- Data Centre Interconnect between B2 and B1
- 1Gb and 10Gb and Fibre Pair

NEXTDC'S ETHERNET CONNECTIVITY PLATFORM, AXON IS AVAILABLE AT B2

- Providing the full benefits of NEXTDC's private Ethernet connectivity
- Single port for multiple application
- Rapid provisioning and de-provisioning
- Carrier marketplace
- Gateway to NEXTDC's entire national ecosystem of public and private cloud, ISP and MSP providers