

# Brisbane Data Centres

Technical Specifications



**N E X T D C**

where the cloud lives™





# Brisbane's innovation epicentre for cloud and digital transformation

NEXTDC's Brisbane data centre network is centrally located yet geodiverse and seamlessly interconnected to Queensland's largest community of cloud platforms, digital services providers and enterprises.

Connect to the critical communities that underpin the acceleration of your digital transformation objectives, and amplify business value, including content and digital media providers, global networks and cloud services.

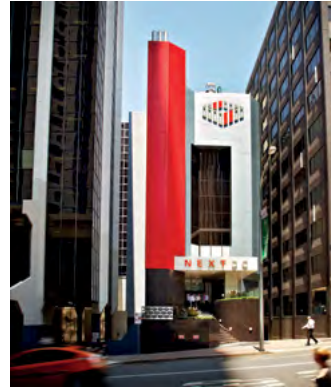
Housing Queensland's only locally available cloud onramp, we enable local and native access to Google Cloud. Additionally, interconnect seamlessly and securely to the country's largest cloud-network with private, low latency access to Microsoft, AWS, Oracle Cloud and IBM Cloud so you optimise speed to value for your cloud and transformation objectives.







**A1 Adelaide**  
211 Pirie Street, Adelaide SA 5000



**B1 Brisbane**  
20 Wharf Street, Brisbane City QLD 4000



**B2 Brisbane**  
454 St Pauls Terrace, Fortitude Valley QLD 4006



**C1 Canberra**  
19 Battye Street, Bruce ACT 2617



**D1 Darwin**  
2 Harvey Street, Darwin NT 0800



**M1 Melbourne**  
826 Lorimer Street, Port Melbourne VIC 3207



**M2 Melbourne**  
75 Sharps Road, Tullamarine VIC 3043



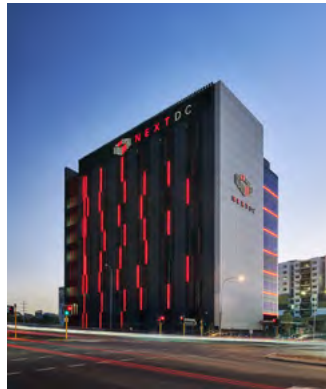
**M3 Melbourne**  
25 Indwe Street, West Footscray VIC 3012



**NE1 Newman**  
96 Woodstock Street, Newman WA 6753



**P1 Perth**  
4 Millrose Drive, Malaga WA 6090



**P2 Perth**  
11 Newcastle Street, Perth WA 6000



**PH1 Port Hedland**  
17 Loreto Circuit, Port Hedland WA 6721



**S1 Sydney**  
4 Eden Park Drive, Macquarie Park NSW 2113



**S2 Sydney**  
6-8 Giffnock Avenue, Macquarie Park NSW 2113



**S3 Sydney**  
2 Broadcast Way, Artamon NSW 2064



**SC1 Sunshine Coast**  
44 Maud Street, Maroochydhore QLD 4558



# Scale your IT securely, with speed and precision at Brisbane's major technology hub

NEXTDC's digital infrastructure platform enables secure, seamless and frictionless access to the cloud platforms, carriers and digital services providers that your business needs to succeed.

There is nothing more critical than your brand, reputation, and your ability to faultlessly serve your customers. We understand the always-on nature of your businesses, and the critical need for immediacy 100% of the time. As Queensland's premier data centre provider, we're the best in the business when it comes to protecting yours.

Confidently managing risk and improving the resilience of your business is critical to compete and thrive in the digital era. Supporting the dynamic and rapidly evolving requirements of digital businesses requires the backing of completely fault tolerant digital infrastructure. Our Brisbane data centres set the benchmark for premium colocation facilities in the state. As the only Tier IV certified and completely fault tolerant infrastructure platform in Queensland, your business benefits from the highest levels of resilience, reliability and performance, all backed by NEXTDC's industry leading 100% uptime guarantee.



## Proximity and performance

NEXTDC's Brisbane data centres offer superior interconnectivity capability, enabling you to bridge the distance and latency between your hybrid IT environment to your cloud platforms, locations and digital services partners.



## Geo-redundancy

Enables you to run active sites across our national footprint. Should disaster strike, simply failover to your specified location via secure, high-performance dynamic connections.



## Availability

NEXTDC delivers the highest levels of availability and reliability of the critical infrastructure your business needs to succeed. Our national digital infrastructure footprint is backed by an industry leading service level guarantee of 100% uptime.

## Data centre specifications

	B1	B2
<b>Location</b>	20 Wharf Street Brisbane City Queensland 4000	454 St Pauls Terrace Fortitude Valley Queensland 4006
<b>Target IT capacity</b>	2.25MW	12MW
<b>Technical space</b>	1,650m <sup>2</sup>	6,000m <sup>2</sup>
<b>Target PUE</b>	1.6 <sup>1</sup>	~1.25 <sup>1</sup> /1.34 <sup>2</sup>
<b>Data halls</b>	5	2
<b>Rack capacity</b>	710	1,270
<b>Interconnect rooms</b>	1	3

## Facility features

On-site parking	Undercover loading dock	Wifi	Customer breakout area
Mission critical office space	Bookable meeting rooms	Spare parts	Crash carts

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

# Globally recognised and certified data centres

In order for organisations to run a business that is 'Always On' and available to service consumer demand, ensuring you have the most reliable infrastructure supporting your business is critical to ensuring future growth and continued expansion.

NEXTDC's focus and continued investment into building the most reliable infrastructure platform in the country is demonstrated in our Uptime Institute certifications for operational sustainability (Gold Operations) and completely fault tolerant data centre design and construction (Tier IV).

A globally recognised endorsement of our facilities' ability to withstand individual equipment failures or distribution path interruptions and maintain IT operations 24/7.

## Tier III Concurrently maintainable data centre infrastructure

A Tier III certified data centre means there is no requirement for the complete shutdown of operational equipment during maintenance and repairs. A redundant delivery path for power and cooling is added to the redundant critical components of Tier II so that every component that is needed to support the operational environment can be shut down and maintained without impacting the overall operation of the facility.

## Tier IV Completely fault tolerant data centre infrastructure

Uptime Tier IV for constructed facility is the pinnacle of data centre certifications worldwide. Tier IV infrastructure is a building block on top of the requirements for Tier III, adding in complete fault tolerance to the infrastructure deployed onsite. Completely fault tolerant infrastructure means that any individual equipment failures or distribution path interruptions that occur, will have no impact to the overall operations of the facility.



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



**ISO 14001:2015**  
Environmental Management System certification.



**ISO 9001:2015**  
Quality Management System certification.



**ISO 45001:2018**  
Occupational health and safety management systems.



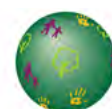
### SOC 1/SOC 2

SOC is a suite of reports from the AICPA that CPA firms can issue in connection with system-level controls at a service organisation.



### PCI-DSS

The Payment Card Industry Data Security Standard is an information security standard for organisations that handle branded credit cards from the major card schemes.



FTSE4Good

### FTSE4Good

Certified ethical company.



Australian Government  
Digital Transformation Agency

### Digital Transformation Agency (DTA)

Commonwealth Government's Hosting Certification Framework.







# B1 Brisbane

Located in the heart of Brisbane's CBD, B1 is perfectly situated to deliver the centralised and highly secure protection of your IT environment.

In order to deliver on the always-on and highly available requirements of digital businesses, B1 is engineered to deliver your business a 100% uptime advantage.

A centre piece to NEXTDC's Brisbane data centre network, B1 enables seamless and frictionless interconnection to the leading public cloud such as AWS, Google Cloud, Microsoft, IBM Cloud, Oracle Cloud and Alibaba Cloud via AXON. B1 directly interconnects to NEXTDC's diverse and digitally-advanced partner ecosystem ensuring your people, workloads, data and locations are always on, and always connected.





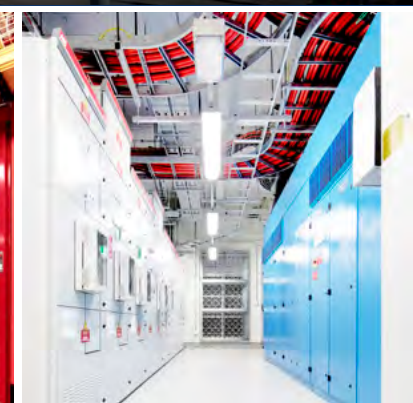
# B2 Brisbane

Located on the fringe of the Brisbane CBD, B2 is an Uptime Tier IV certified data centre and is the best positioned in the Queensland market to support the increasing needs of digital businesses.

B2 sets an unrivalled industry benchmark for security, performance, reliability and energy-efficiency. Offering exceptional proximity to the city, and Queensland's largest locally available digital ecosystem, B2 seamlessly interconnects your corporate IT to the countries' leading communications networks, clouds and digital services providers.

As the state's major technology hub, B2 delivers the flexibility and agility required to support the increasingly distributed nature of hybrid IT environments. NEXTDC is where the cloud lives, and B2 is the only data centre in Brisbane that can offer secure, local and native access to public cloud.

Build a high-performance hybrid cloud architecture with direct or on-demand access to AWS, IBM Cloud, Microsoft Azure and Oracle Cloud. Customers have the flexibility to connect directly between B1 and B2, via Data Centre Interconnect (DCI) to create a unified metropolitan data centre footprint.







## Why choose NEXTDC



### Flexible infrastructure

With over 7,500m<sup>2</sup> of technical IT space, NEXTDC's Brisbane data centres provide the capability needed to support high-density hybrid IT environments. Our digital infrastructure platform supports the long-term requirements of organisations, delivering solutions that meet your needs now, with the ability to scale easily to support your future needs.



### Interconnected advantage

Select from flexible connectivity services ranging from Structured Cabling and Cross Connects to cloud connections, we will help build a solution that best suits your business or project requirements.



### Cloud enabled

When you house your IT infrastructure in NEXTDC's data centres, your critical IT assets are interconnected directly, and natively to AWS, Microsoft, Google, Oracle, IBM and AUCloud.





### Operational excellence

Our team of highly specialised operations experts are the leaders in the Australian industry. As a customer-first organisation, we pride ourselves on ensuring we deliver the highest levels of customer service and support in the country. Our expertise and passionate team are the reason we are recognised as the leading data centre services provider in the country.



### Scalable networks

Establish low-latency network connections with access over 70 global carriers, networks of your choice, including global carriers, subsea cables, metro networks, SDNs and more.



### Elite security

Every NEXDC facility is monitored and secured via our elite security operations centres 24/7/365. Governed by the highest security standards globally, our facilities are purpose built to ensure a frictionless experience, governed by a comprehensive framework comprising five layers of security.



# Interconnect to the digital platforms and services that fuel your growth

With over 730 cloud, network and IT service providers available within our data centres and continued facility expansions, our customers growth and technology needs are supported now and into the future.

NEXTDC offer organisations greater choice and guaranteed reliability when interconnecting their business to the clouds, networks and platforms that drive their business, and quality assurance when it comes to building high-performance, highly reliable and scalable Hybrid IT architectures.






# The fastest most direct access to your public cloud on-ramp

Partnering with NEXTDC, means positioning your critical infrastructure in the epicentre of your digital services supply chain. Our digital infrastructure platform enables direct, secure and native access to your clouds, with the advantage of proximity. The power of proximity and speed delivers you the agility, performance, and customer experience advantages needed to increase your competitive edge.



Technical specifications	B1 Brisbane	B2 Brisbane
 <b>Cooling</b>	<ul style="list-style-type: none"> <li>▪ N+1 air-cooled UNIFLAIR chillers with variable speed motors.</li> <li>▪ Dual chilled water risers servicing the building.</li> <li>▪ Chilled water buffer tank with dual water bypass.</li> <li>▪ Multiple redundant water pump and compressor configuration.</li> <li>▪ Redundant back-up pipe systems to essential equipment.</li> <li>▪ Server heat load approximately 1,400 W/m<sup>2</sup>.</li> <li>▪ N+1 Computer Room Air Conditioning (CRAC) units per data centre room.</li> <li>▪ CRAC units fitted with supply temperature control and floor pressure control.</li> <li>▪ Cold aisle containment system on Levels 3 to 6.</li> <li>▪ Hot aisle containment system on Level 2.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hot aisle containment, no raised floor.</li> <li>▪ Stulz in-direct, free cooling CRACS paired with modular cooling tower infrastructure.</li> <li>▪ N+1 independent cooling systems, providing high levels of reliability and industry leading PUE of 1.34 (yearly average) or 1.25 (yearly lowest).</li> <li>▪ 24 hours of water stored on-site (minimum).</li> </ul>
 <b>Electrical</b>	<ul style="list-style-type: none"> <li>▪ N+N delivery of power to racks.</li> <li>▪ 1MW Schneider UPSs with 20min battery autonomy.</li> <li>▪ 1.6MW Prime rated Generators.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Isolated Parallel Bus, supporting N+N delivery to the rack</li> <li>▪ 1.5MW Pillar rotary UPS supported by Penske engines, supporting the entire site load</li> <li>▪ 24 hours of fuel stored on-site (minimum), per engine</li> </ul>
 <b>Fire</b>	<ul style="list-style-type: none"> <li>▪ VESDA fire detection.</li> <li>▪ Leak Detection systems.</li> <li>▪ High pressure water misting system supply to DRUPS units.</li> <li>▪ Inert gas fire suppression for all data halls.</li> </ul>	<ul style="list-style-type: none"> <li>▪ VESDA fire detection.</li> <li>▪ Leak Detection systems.</li> <li>▪ High pressure water misting system supply to DRUPS units.</li> <li>▪ Inert gas fire suppression for all data halls.</li> </ul>
 <b>Security</b>	<ul style="list-style-type: none"> <li>▪ Individual credential checks prior to authorisation. 24/7 onsite security operations.</li> <li>▪ Two factor Biometric fingerprint security for data centre access. Anti-cloning access card encryption.</li> <li>▪ Secure lifts between floors. Intruder-resistant glass, steel mesh and solid concrete walls.</li> <li>▪ Secure loading dock for deliveries. Extensive coverage by motion sensitive CCTV cameras.</li> <li>▪ Remote monitoring and control of rack access via ONEDC®.</li> <li>▪ Monitoring of news and weather for external security risks.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Individual credential checks prior to authorisation. 24/7 onsite security operations.</li> <li>▪ Two factor Biometric fingerprint security for data centre access. Anti-cloning access card encryption.</li> <li>▪ Secure lifts between floors. Intruder-resistant glass, steel mesh and solid concrete walls.</li> <li>▪ Secure loading dock for deliveries. Extensive coverage by motion sensitive CCTV cameras.</li> <li>▪ Remote monitoring and control of rack access via ONEDC®.</li> <li>▪ Monitoring of news and weather for external security risks.</li> <li>▪ Anti-pass back on the single person turnstile entries.</li> </ul>
 <b>Loading dock</b>	<ul style="list-style-type: none"> <li>▪ Secure, undercover loading dock facilities.</li> <li>▪ Supporting large scale delivery of IT equipment.</li> <li>▪ Unpacking space, with trash removal Staging rooms, pre-test before move to data hall.</li> <li>▪ Purpose built paths from delivery to data hall for rapid install and activation.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Secure, undercover loading dock facilities.</li> <li>▪ Supporting large scale delivery of IT equipment.</li> <li>▪ Unpacking space, with trash removal Staging rooms, pre-test before move to data hall.</li> <li>▪ Customer storage facilities available.</li> <li>▪ Purpose built paths from delivery to data hall for rapid install and activation.</li> </ul>
 <b>Front of house</b>	<ul style="list-style-type: none"> <li>▪ Support for escorted access and tours.</li> <li>▪ Assistance with car parking and meeting rooms.</li> <li>▪ Package receipt and dispatch.</li> <li>▪ 24/7 365 support on-site (if required).</li> </ul>	
 <b>Customer services</b>	<ul style="list-style-type: none"> <li>▪ Bookable meeting rooms and AV equipment</li> <li>▪ Dedicated office space for long-term private use</li> <li>▪ Chill-out and break-out suites equipped with kitchen facilities, coffee and refreshments, TV, lounge, massage chairs and Fostel</li> <li>▪ Equipment staging room</li> <li>▪ 2 x 4 tonne lifts</li> <li>▪ Customer car parking</li> <li>▪ Spare parts vending machine</li> <li>▪ Crash carts</li> <li>▪ Guest Wi-Fi</li> </ul>	<ul style="list-style-type: none"> <li>▪ Bookable meeting rooms and AV equipment</li> <li>▪ Dedicated office space for long-term private use</li> <li>▪ Chill-out and break-out suites equipped with kitchen facilities, coffee and refreshments, TV, lounge, massage chairs and Fostel</li> <li>▪ Equipment staging room</li> <li>▪ 2 x 3.5 tonne lifts</li> <li>▪ Customer car parking</li> <li>▪ Spare parts vending machine</li> <li>▪ Crash carts</li> <li>▪ Guest Wi-Fi</li> </ul>
 <b>Carrier and vendor neutral</b>	<ul style="list-style-type: none"> <li>▪ Multiple street fibre connection pits and dual diverse Interconnect rooms.</li> <li>▪ Open access for all fibre operators, Carriers, ISPs, MSPs.</li> </ul>	
 <b>Interconnectivity solutions</b>	<ul style="list-style-type: none"> <li>▪ Gateway to NEXTDC's entire national ecosystem of public and private cloud providers, carrier networks and MSP services.</li> <li>▪ Managed and unmanaged Data Centre Interconnects between B1 and B2 (1Gbps, 10Gbps and customer managed).</li> <li>▪ Dynamic scalable on-demand connections to Microsoft Azure, Amazon Web Services (AWS), Google Cloud, IBM Cloud, Oracle Cloud and Alibaba Cloud.</li> <li>▪ High performance, lowest possible latency secure connections to 550+ partners.</li> <li>▪ Dedicated, cost effective and low latency point-to-point Cross Connects.</li> </ul>	





**NEXTDC's infrastructure platform delivers the security, sovereignty and interconnectivity capability your businesses requires.**

**Our premium solutions empower the underlying capability you need to grow and scale without friction or limitation and accelerate the momentum of data traction.**

**Find out how NEXTDC can help you enhance the reliability and efficiency of your digital infrastructure, so you stay focussed on driving growth and creating value for your customers.**



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**nextdc.com**

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