



NEXT DC

# S3 SYDNEY DATA CENTRE





# S3 Sydney

## Where the cloud lives and digital businesses interconnect

Located in Artarmon, approximately 9km from the Sydney CBD, S3 Sydney will deliver more than 20,000m<sup>2</sup> of IT space and 80MW of critical power to organisations.

As Australia's most cloud-connected and cloud-enabled data centre provider, S3 is where the cloud lives, delivering direct and local access to the leading public cloud platforms and Australia's largest and network-dense ecosystem of ICT services specialists.

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.

As Australia's market leading data centre operator, we continue to advance our commitment to building Australia's most resilient, sustainable and operationally superior digital infrastructure platform. Recognised as the country's most reliable data centre provider, we continue to deliver our customers a 100% business uptime advantage, minimise energy usage and operate sustainably, and optimise the overall efficiencies we drive for our customers and their business.

**INTERCONNECT YOUR BUSINESS AND ACHIEVE THE FASTEST  
MOST DIRECT ACCESS TO CLOUD FROM DAY ONE**







# S3 Sydney

## FEATURES



~9km proximity to Sydney CBD



Uptime Tier IV Gold operations



Targeting NABERS 5-Star energy efficiency



Mission critical operational space



100% carbon neutral options



Self-service and infrastructure management



Uptime Tier IV certified

## SPECIFICATIONS



Target IT capacity

80MW



Technical space

20,000 sqm



Mission critical operational space

1,511 sqm



Target PUE

~1.15<sup>1</sup>/1.29<sup>2</sup>



Data halls

21



Racks

10,800



Interconnect Rooms

4

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.



# Give your business a 100% uptime advantage

There is nothing more critical than your brand, reputation, and your ability to faultlessly serve your customers. Supporting your brand and reputation is embedded in NEXTDC's core values. We understand the always-on nature of digital businesses, and the critical need for immediacy, and being available and accessible to your customers 100% of the time.

Our commitment to going the extra mile to support this new 'non-negotiable' aspect of modern digital business, extends to building and operating Australia's only network of Tier IV data centres. In today's digital landscape 99% isn't good enough, and NEXTDC are the only data centre provider in the country who are independently verified and certified to deliver your business a 100% uptime guarantee.

Supporting the dynamic and rapidly evolving requirements of digital businesses requires the backing of completely fault tolerant digital infrastructure. S3 Sydney will operate at the highest global standards for data centre reliability and efficiency, delivering businesses an unmatched service guarantee of 100% uptime. S3 is Uptime Tier IV certified for Design Documents and will be Tier IV certified for Constructed Facility upon completion. NEXTDC is widely recognised globally as the pinnacle of data centre standards and verifies the facility's superior standard of quality, resilience, and reliability - delivering the critical assurance of complete fault tolerance of the infrastructure powering your business.

It's common for data centres in Australia to be built to a "currently maintainable" standard, meaning any piece of critical infrastructure can be taken offline for maintenance without affecting the facility's operations. NEXTDC goes the extra mile, protecting your business with completely fault tolerant infrastructure that ensures uninterrupted, continuous operations even in the event of an unplanned failure of any piece of critical equipment.

**NEXTDC go the extra mile,  
protecting your business  
with completely fault  
tolerant infrastructure.**







# Future-proofing essential operations

The onset of COVID-19 heightened the imperative for organisations to build inherently flexible, scalable and integrated technology platforms that will support remote workforces, improve safety and enhance operational efficiencies. As the world undergoes significant change, organisations must adapt and evolve in step; ensuring you're best positioned to take advantage of the opportunities it presents.

With enough critical capacity to power more than 63,000 Sydney homes, S3 forms a critical operations hub for NSW business. Housing mission critical services and processes, S3 will offer high availability operational spaces that are customised to house operations teams, essential operations centres and administrative offices.

## OPERATIONAL IMPERATIVES



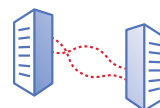
**OPERATIONAL  
STABILITY**



**ENHANCE  
SAFETY**



**REDUCE COSTS  
AND ACCELERATE  
TIME TO VALUE**



**INCREASE  
PRODUCTIVITY  
AND FLEXIBILITY**



**SUSTAINABLE  
BUSINESS  
OPERATIONS**

## ESSENTIAL AND MISSION CRITICAL OPERATIONS

Mission critical operations teams form the 'nerve centre' for businesses. Addressing the needs within your operations in real-time, these operational teams play a crucial role in enabling growth and more streamlined efficiencies through informed decision making.

The criticality of system availability and uptime cannot be overstated when it comes to delivering operational transparency, efficiency and safety. Similarly, the importance of not just technology uptime but also staff capability in mission critical environments is increasingly becoming a business necessity to achieve critical operational imperatives.

NEXTDC's MCX solutions are custom Mission Critical spaces that leverage the scale, resilience, connectivity and security of our Tier IV completely fault tolerant data centres. Our MCX solutions are bespoke environments, tailored specifically to suit the individual needs and objectives of your business. Each MCX environment is purpose-built to house and support mission critical teams and operations delivering a 100% uptime imperative to critical teams and tasks.

**As a leader in Australia, providing highly resilient and robust Disaster Recovery solutions, NEXTDC will work with you to design the most efficient solution for your business.**

**S1**



**16MW**



**4 Eden Park Drive  
Macquarie Park  
NSW 2113**

**S2**



**30MW**



**6-8 Giffnock Avenue  
Macquarie Park  
NSW 2113**

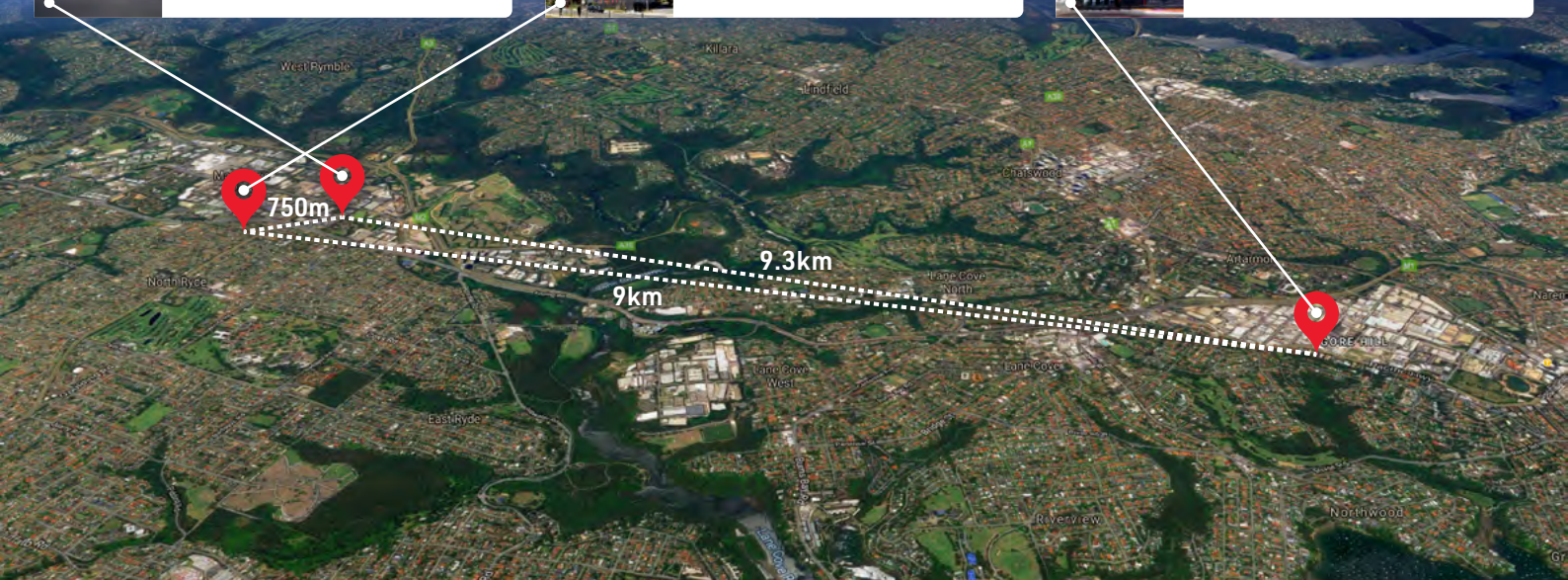
**S3**



**80MW**



**2 Broadcast Way  
Artamon  
NSW 2064**



### **PROXIMITY AND PERFORMANCE**

NEXTDC's metropolitan data centres offer superior network connectivity when it comes to bridging the distance and latency between your primary location and DR site, enabling you to failover in as little as a nanosecond.



### **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**

Back your Disaster Recovery strategy with the highest levels of system availability and reliability and a 100% uptime guarantee.

**COOLING**

- Hot aisle containment, ceiling plenum hot return space
- Vertiv in-direct, free cooling CRAC paired with modular cooling tower infrastructure for continued growth
- N+1 independent cooling systems, providing high levels of reliability and industry leading PUE of 1.2 (yearly average target) or 1.15 (yearly lowest)
- 24 hours of water stored on-site (minimum)

**ELECTRICAL**

- 2.7MW Piller rotary UPS supported by MTU (Rolls Royce) engines, supporting the entire site load
- 24 hours of fuel stored on-site (minimum)
- 100% UPS backup of entire site including mechanical for continuous cooling
- Isolated Parallel Bus

**FIRE**

- Wagner aspirating smoke detection
- Inert gas fire suppression with low pressure release, onsite supply primary and reserve

**SECURITY**

- ASIO Physical security ZONE 3 compliant
- Designed and built to meet minimum requirements for a Protective Security Policy Framework (PSPF)
- Physical security concept provides the necessary measures to DETER-DETECT-DELAY-RESPOND to any security event at any of the zones
- Ballistic rated Security Office
- 24/7 onsite elite security operations
- Extensive coverage by motion sensitive, high definition CCTV cameras
- Two factor Biometric fingerprint security for data centre access
- Individual credential checks prior to authorisation
- Anti-cloning access card encryption
- Secure lifts between floors
- Intruder-resistant glass, steel mesh and solid concrete walls
- Secure, undercover loading dock for deliveries
- Remote monitoring and rack access control via ONEDC®
- Monitoring of news and weather for external security risks

**LOADING DOCK**

- Secure, undercover loading dock facilities
- Supporting large scale delivery of IT equipment
- Unpacking space, with trash removal
- Staging rooms, pre-test before move to data hall
- Customer storage facilities available purpose-built paths from delivery to data hall for rapid install and activation

**FRONT OF HOUSE**

- 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)

**CUSTOMER SERVICES**

- Bookable meeting rooms and AV equipment
- Dedicated office space for long-term private use (mission critical office space)
- Auditorium
- Chill-out and break-out suites equipped with kitchen facilities, coffee and refreshments, TV, lounge, massage chairs and Foxtel
- Equipment staging room
- 2 x 3.5 tonne lifts
- 1 x 15 tonne goods hoist
- Customer car parking
- Spare parts vending machine
- Crash carts
- Guest Wi-Fi

**CARRIER AND VENDOR NEUTRAL**

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

**INTERCONNECTIVITY SOLUTIONS**

- High performance, lowest latency, secure connections
- Gateway to NEXTDC's entire national ecosystem of public and private cloud providers, carrier networks and MSP services
- Managed and unmanaged Data Centre Interconnects between S3, S2 and S1 (1Gbps, 10Gbps and customer managed)
- Dynamic, private, and scalable connections to Microsoft Azure, AWS, Google Cloud, IBM
- Cloud, Oracle Cloud and Alibaba Cloud
- Dedicated, cost effective and low latency point-to-point Cross Connects



**NEXTDC partner with you to help you secure and interconnect your critical IT infrastructure and networks. Our premium digital infrastructure platform enables you to grow and scale without limitations, reach new customers and strengthen business resilience.**

**To find out how NEXTDC can help you enhance the reliability and efficiency of your digital infrastructure so you can focus on driving growth, capitalise on new opportunities, and create value for your customers, contact us on 13 NEXT or visit [www.nextdc.com/contact](http://www.nextdc.com/contact)**



**N E X T D C** where the cloud lives™

**13 NEXT** [sales@nextdc.com](mailto:sales@nextdc.com) [www.nextdc.com](http://www.nextdc.com)

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