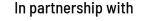# CAN3 data center

62MW facility

## Introduction

Aofei is a visionary data center partner who provides secure, resilient and network rich data center solutions to help our customers unlock growth opportunities across China's fast moving digital markets. Designed to meet our energy performance and sustainability objectives, the CAN3 facility design PUE of 1.29 will be one of the most efficient data centers in China.

## Convenient location

- Nansha district, south east of Guangzhou.
- Within a data center cluster.
- Located in Nansha, Guangzhou in the geometric center of the greater bay area.
- 71.2km from Guangzhou Baiyun International Airport.
- 38km from Shenzhen Bao'an International Airport.
- 64km from Hong Kong Airport.
- Dual HV power feeds from two different substation.
- Self-built dual high-voltage substation in the campus.
- Diverse fiber connections.

Find out more

Contact us now for more information about our data centers or to schedule a tour.

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## Hyperscale design

CAN3 with a 62MW of critical power and network rich connectivity, is ideal for companies looking for a secure and resilient hyperscale facility in Guangzhou. With the option for customized data halls, customers have the flexibility to create an ecosystem that suits their business needs.



## Specifications at a glance

### Facility features
Covers an area of 75,000m$^2$
4x 7 story buildings.
72 data halls.
Availability: 99.99%

### Data hall features
Up to 10,000 standard racks.
62MW IT load.
Rack height up to 47U
Floor to floor height: 5.4m
Data hall ceiling height: 4.5m
Data hall structural floor loading: 15kN/m$^2$

### Utility power and generators
Dedicated onsite transformers.
N+1 diesel backup generators with minimum 12 hour fuel at full load.

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## IT power

N+1 static uninterrupted power supply systems for IT loads with 15 minutes battery backup.

Dual busway power distribution, 2 takeoff boxes per rack, up to 64A.

## Cooling

N+1 water cooled chillers.

N+1 CRAC units.

UPS power to CRACs and pumps for continuous cooling.

Hot aisle containment.

The cooling towers are mounted on the roof.

Dual path water feeds to the campus.

## Connectivity

Carrier neutral

Multiple ISPs available to the site.

Multiple entry points and diverse underground cable pathways to the building with site diagonal diversity.

## Monitoring and security

24/7 onsite security personnel.

Access control and biometric authentication procedures.

Sitewide CCTV surveillance.

24/7 onsite NOC monitoring power, HVAC and critical systems.

24/7 security monitoring and NOC, providing overview and support to site CSMS monitors all building functions including BMS, SCADA, EPMS, fire, security and access control systems.

## Fire protection

Smoke detectors (VESDA).

Temperature sensors.

FM200 fire extinction.

## Grounding

Clean earth bonding and building lightning protection are integrated into the electrical grounding system.

## Other services

Secure loading bay for trucks and containers.

Full rack height goods lifts and corridors.

Dedicated storage rooms.

Office space and meeting rooms.

Remote hands.

Customer account managers.

Secure onsite parking.

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