MNL1 Data Center

72MW facility

Space to grow

Space^{DC} is a visionary data center partner who provides secure, resilient and network rich data center solutions to help our customers unlock growth opportunities across Asia's fast moving digital markets.

Gateway to Philippines

With 100% green power supply MNL1 is the Philippines first and only green data center. An outstanding design PUE of 1.3 leads the way in energy efficiency, taking a positive step towards minimizing the industry's carbon footprint.

Convenient location

- Located in Cainta, Greater Manila.
- Easy access to Bonifacio Global City BGC and Pasig.
- 8.5km from Makati.
- Dual HV power feeds to site.
- Diverse fibre connections to major exchanges.

Hyperscale design

Delivering 72MWs of critical power, MNL1 is the Philippines largest data center campus. Providing you with state of the art facilities, our design can comfortably accommodate racks up to 15kW in our 48 x 1,500kW data halls before additional cooling support is required.

MNL1 data center
Specifications at a glance

Facility Features	3x four story buildings 1x single story building Total of 43,000m^2 48 x 1500kW data halls 1 x 700kW data hall 99.982% availability Four story admin building
Data Hall Features	1500kW IT load per 500m^2 data hall 192 racks per hall @ 8kW per 800mm (W) x 1200mm (D) x 2300mm (H) rack 258 racks per hall @ 6kW per 600mm (W) x 1200mm (D) x 2300mm (H) rack Secure zone areas for privacy Rack height up to 52U Floor to floor height: 6.3m Data hall ceiling height: 4.2m Data hall structural floor loading: 15kPa combined
Utility Power and Generators	Dedicated onsite transformers N+1 diesel backup generators with minimum 24 hour fuel at full load
IT Power	N+1 1350kW static uninterrupted power supply systems for IT loads with five minute battery backup Dual busway power distribution, 2 takeoff boxes per rack, up to 32A 3ph
Cooling	N+1 high efficiency electric air cooled chillers N+2 CRAC units per data hall UPS power to CRACs and pumps for continuous cooling Hot aisle containment Chilled water supply allows for water cooled racks at up to 50kW each
Connectivity	Carrier neutral Multiple ISPs available to the site 4 Meet Me Rooms (MMRs) per building Multiple entry points and diverse underground cable pathways to the building with site diagonal diversity
Monitoring and Security	24/7 onsite security personnel Threat and Vulnerability Risk Assessment (TVRA) – certified low risk Cardkey access control and biometric authentication procedures Sitewide CCTV surveillance 24/7 onsite NOC monitoring power, HVAC and critical systems 24/7 Singapore 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	Double interlock, dry pipe, pre action sprinkler system to data halls VESDA overhead and concealed space smoke detection to data halls Emergency warning and indication systems through facility Water mist suppression to generator enclosures
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 staging and storage rooms Office space and meeting rooms Remote hands Customer account managers Secure onsite parking

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