



DATA CENTER

KIO SDO|1

KIO is an international company, founded in 2002, a provider of mission-critical Information Technology services that operates state-of-the-art Data Centers with the highest security, availability and density in Mexico, Colombia, Central America and the Caribbean. KIO hosts a robust and wide ecosystem of different industry sectors in the region within its Data Centers ensuring a professional, redundant, scalable and secure environment.



18°27'47.3"N 69°42'29.8"W

KIO SDO|1 since 2014, certification TIER IV.

Location: Free Trade Zone "Las Americas", in Santo Domingo, Dominican Republic

CHARACTERISTICS



DESIGN

One computer room with an area of 223m², a floor with a height of 0.90m with anti-seismic pedestals and hurricane-proof construction with TIER IV design features and certification.



ELECTRICAL CAPACITY

It has two 275 kVA UPS. Redundant with sufficient capacity to provide uninterrupted and filtered power to all equipment installed in the phase accommodation area: It has an advanced battery monitoring system.



REDUNDANCY

2N in the electrical equipment, with two 450 kW emergency power generators, with two diesel storage tanks, providing 7-day autonomy. The cooling equipment has a 2N configuration.



ENERGY EFFICIENCY

Cold aisle containment helping deliver an average PUE of 1.6.



MONITOREO

It has a Building Monitoring System (BMS), which monitors the efficiency and proper functioning of the entire electromechanical infrastructure of the Data Center.



POWER SUPPLY / SERVICE DROP

Medium-voltage 13.2 kV power supply / service drop.



QUALIFIED PERSONNEL

There are trained and qualified operating personnel 7x24x365 days a year.



CARRIER NEUTRAL

Open invitation to all Carriers. The current Carriers are:

Altice	Gold Data
Claro	hDCO
Columbus Networks	Onemax
Estrela	Wind Telecom

KIO also has a high-speed interconnection network among its **Data Centers**.



NOC

Advanced operations and network monitoring center.



SECURITY

There are **5 two-factor authentication** (proximity and facial recognition biometrics) controls, with a 7x24x365 Video Surveillance system with a 90-day storage capacity.



FIRE PROTECTION

It has smoke detectors, manual stations and audiovisual alerts in all areas, in compliance with the standards of the National Fire Protection Association (NFPA). A Very Early Smoke Detection Apparatus (VESDA) has also been installed, as well as a double interlock preaction system.



GLOBAL, SECURE AND EFFICIENT DATA CENTERS FOR YOUR BUSINESS

PHYSICAL CHARACTERISTICS

+ Type of walls	Reinforced concrete
+ Wall thickness	18 cm (7 inches)
+ Perimeter wall	Yes
+ Construction of perimeter wall	Reinforced concrete
+ Wheelchair access	Yes
+ Dedicated Data Center building	Yes
+ Distance to a police station	4 km (2.48 miles)
+ Distance to a fire station	300 m (0.18 miles)
+ Data Hall No1 technical floor area	223 m2 (2,400 ft2)
+ MDA A technical floor area	12 m2 (129.16 ft2)
+ MDA B technical floor area	15.22 m2 (163.82 ft2)
+ MPOE A technical floor area	13.2 m2 (142.08 ft2)
+ MPOE B technical floor area	12.45 m2 (134.01 ft2)
+ Raised floor - Concentrated load	567 kg (1,250 lb)
+ Raised floor - Uniform load	1,952.97 kg/m2
+ Raised floor - Impact load	65 kg (150 lb)
+ Raised floor - Last load	2,222 kg (4,900 lb)

+ Separate room for UPS	Yes
+ UPS room with redundant air conditioning	Yes
+ Maximum cabinet capacity	108 aprox
+ Space availability with perimeter cage	Yes
+ Height above sea level (meters)	16 m (52.4934 ft)
+ Distance to the ocean (kilometers)	902 m (0.560 miles)

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	4
Number of redundant units	2
Tons of cooling for the Data Center	160



SECURITY

+ Access control	Mantrap
+ Authentication factors	Facial biometrics and proximity card
+ Visitor log	Yes
+ 7x24 Security personnel	Yes
+ Security cameras	Yes
+ Minimum DVR recording time	90 days
+ Fire detection	VESDA
Automatic fire extinguishing	2 interlock preaction

COMMUNICATIONS

+ Copper wiring	Category 6A or higher
+ Fiber wiring	Single mode and multimode
+ Wire covering	Plenum y/o LSOH
+ Space for Carriers	Yes
Site Entry	Yes

POWER CHARACTERISTICS

+ Redundancy	2N
+ Availability	Uptime Institute Tier IV Design
+ Design capacity in m2	1
+ UPS capacity	1 kW / IT
+ Constant battery monitoring	275 kVA
+ Transformer capacity	Yes
+ Number of power connections	500 kVA
+ UPS autonomy time	10 minutes
+ Diesel autonomy time	7 days
Total diesel tank capacity	22,712 liters (5,999.8757 gal)
+ Number of generators	2
+ Total generator capacity	450 kW

CERTIFICATIONS

+ Uptime Institute Tier IV	ISO/IEC27001:2013
+ PCI DSS	SSAE18



SSAE18

