



DATA CENTER

KIO MEX|2

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.



19° 21' 49.5" N 99° 16' 50.7" W

KIO MEX|2 started operations in 2011, and has TIER IV design characteristics.

Located at Prolongacion Paseo de la Reforma 5396, Cuajimalpa, Mexico, **05000**.

CHARACTERISTICS



DESIGN

Five computer rooms with a total area of 1457 sqm, it has a false floor of a height of 0.90 m reinforced, with anti-seismic pedestals.



ELECTRICAL CAPACITY

Has six 1,000 kVA UPS that are redundant and they have sufficient capacity to provide uninterrupted power to all of the installed equipment. They also have an advanced battery monitoring system.



REDUNDANCY

2N in electrical equipment, with 2.5 MW power generators They have 2 diesel storage tanks, providing 7-day autonomy. The cooling equipment has an N+2 configuration.



ENERGY EFFICIENCY

KIO Green with renewable energy and indirect Free Cooling, which allows it to save power in the cooling system when the humidity and temperature conditions are ideal, helping it achieve a design PUE of 1.6.



MONITORING

It has a Building Monitoring System (BMS) that monitors the efficiency and proper operation of all of the Data Center's electromechanical infrastructure.



NOC

Advanced operations and network monitoring center.



POWER SUPPLY / SERVICE DROP

Two medium-voltage 5 MVA (23 kV) power supply connections / service drops.



TRAINED PERSONNEL

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



CARRIER NEUTRAL

Open invitation to all Carriers. The current Carriers are:

Arelion	Cirion	Telmex
ATC	Cogent	Total Play
Axtel / Alestra	Flō Networks	Type2 Telecom
Bestel	GTT	Vivaro
BT Global	Izzi	
C3ntro	MCM (Megacable)	

Additionally, KIO has a high-speed interconnection network between its Data Centers and connects with others through **DE-CIX and Megaport**.



SECURITY

There are five two-factor authentication (proximity and facial recognition biometrics) controls, with a 7x24x365 Video Surveillance system with a 90-day storage capacity. The center has received Payment Card Industry Data Security Standard (PCI) certification.



FIRE PROTECTION

It has smoke detectors, manual stations and audiovisual alerts in all areas, as well as a Very Early Smoke Detection Apparatus (VESDA) and a double interlock preaction SECO system.



GLOBAL, SECURE AND EFFICIENT DATA CENTERS FOR YOUR BUSINESS

PHYSICAL CHARACTERISTICS

+ Type of walls	Reinforced concrete
+ Wall thickness	20 cm (7.87 inches)
+ Perimeter wall	Yes
+ Construction of perimeter wall	Reinforced concrete
+ Wheelchair access	Yes
+ Dedicated Data Center building	Yes
+ Distance to a police station	4.8 km (2.98 miles)
+ Distance to a fire station	4.8 km (2.98 miles)
+ Data Hall No1 technical floor area	600 m2 (6,458.35 ft2)
+ Data Hall No2 technical floor area	600 m2 (6,458.35 ft2)
+ MDA technical floor area	55.2 m2 (595 ft2)
+ MDB technical floor area	50 m2 (539 ft2)

+ Raised floor - Concentrated load	454 kg (1,000 lb)
+ Raised floor - Uniform load	2,216 kg/m2 (454 lb/ft2)
+ Raised floor - Impact load	65 kg (143 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	556 aprox
+ Space availability with perimeter cage	Yes
+ Height above sea level (meters)	2,264 m (7,427.82 ft)
+ Distance to the ocean (kilometers)	280 km (173.98 miles)

ELECTROMECHANICAL CHARACTERISTICS (COOLER)

+ Number of total units	32
+ Number of redundant units	10
+ Tons of cooling for the Data Center	960



SECURITY

+ Access control	Mantrap
+ Authentication factors	Two (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	Double interlock preaction

COMMUNICATIONS

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

ELECTRIC CHARACTERISTICS

+ Redundancy	2N
+ Availability	ICREA level V
+ Design capacity in m2	2 kW / IT
+ UPS capacity	1,000 kVA
+ Constant battery monitoring	Yes
+ Transformer capacity	2,500 kVA
+ Number of power connections	2
+ UPS autonomy time	11 minutes
+ Diesel autonomy time	7 days
+ Total diesel tank capacity	80,000 total diesel capacity (21,134 gl)
+ Number of generators	4
+ Total generator capacity	2,500 kW

CERTIFICATIONS

+ ICREA Nivel V	ISO/IEC20000-1:2018
+ ICREA Nivel VI	ISO/IEC27001:2013
+ CEEDA GOLD	ISO/IEC 9001:2015
+ PCI DSS	ISO/IEC 22301:2012
+ SSAE18 (SOC 1)	ISO/IEC 37001:2016



SSAE18

