


DATA CENTER

KIO MEX|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.



 19°21'51.23"N 99°16'37.45"W

KIO MEX|1 started operations in 2002, this Data Centers have **TIER III** characteristics.

KIO MEX|1 is located at Carretera Mexico-Toluca 5287, **Cuajimalpa**, La Rosita, Mexico City, CDMX, **CP 05000**.

CHARACTERISTICS



DESIGN

Four computer rooms with an total area of **2535 m2**, with a reinforced false floor with earthquake-proof pedestals and a category-4 structure. The Data Center was designed based on the Uptime Institute Standard, specifically as a **TIER III design**.



ELECTRICAL CAPACITY

It has **8 UPS** of **400 kVA**, that are redundant and have sufficient capacity to provide uninterrupted and filtered power to the installed equipment. They also have an **advanced battery** monitoring system.



REDUNDANCY

N+1 in the electrical equipment, with four **1,5 MW** emergency power generators. They have diesel storage tanks, providing **7-day** autonomy. The cooling equipment has an **N+2 configuration, 8 CRAC's** for redundancy.



ENERGY EFFICIENCY

Average PUE of 1.8.



MONITORING

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



NOC

Advanced operations and network monitoring center.



POWER SUPPLY / SERVICE DROP

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



QUALIFIED PERSONNEL

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



CARRIER NEUTRAL

Open invitation to all Carriers. The current Carriers are:

ATC	Flō Networks	Total Play
Axtel / Alestra	Izzi	
Bestel	MCM (Megacable)	
C3ntro	Metrocarrier	
Cogent	Metrored	
Edge Uno	Telmex	

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



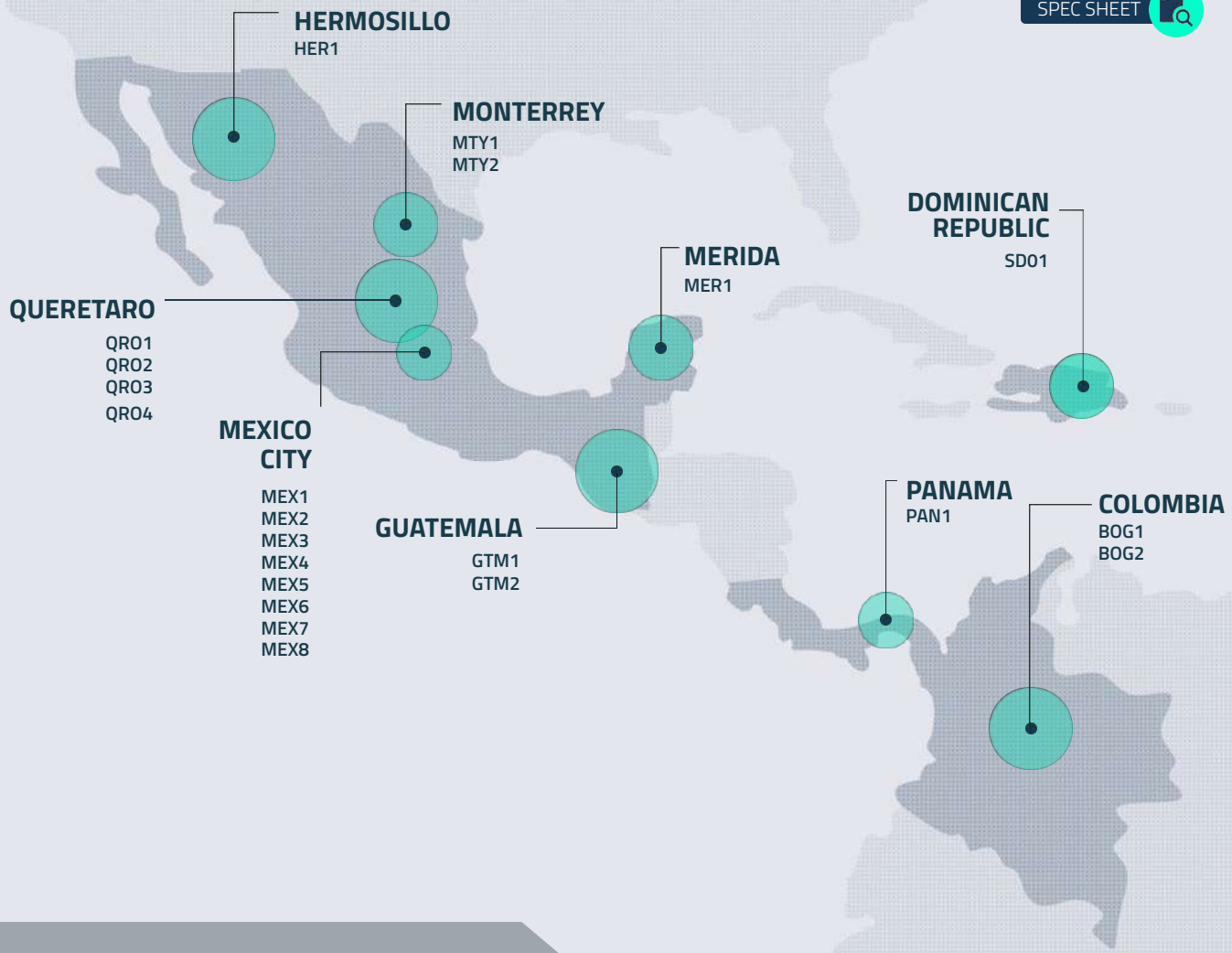
SECURITY

There are 5 two-factor authentication (proximity and facial recognition biometrics) controls, with a 7x24x365 Video Surveillance system with a 90-day storage capacity. 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, in compliance with the standards of the National Fire Protection Association (NFPA), as well as a Very Early Smoke Detection Apparatus (VESDA) and a double interlock preaction SECO system.



GLOBAL DATA CENTERS, SECURE AND EFFICIENT FOR YOUR BUSINESS

PHYSICAL CHARACTERISTICS

+ Type of walls	Reinforced concrete
+ Wall thickness	20 cm (7.87 inches)
+ Perimeter wall	Yes
+ Construction of perimeter wall	Block
+ Wheelchair access	Yes
+ Dedicated Data Center building	Yes
+ Distance to a police station	4.4 km (2.73 millas)
+ Distance to a fire station	4.8 km (2.98 millas)
+ Data Hall No1 technical floor area	650 m2 (6,992 ft2)
+ Data Hall No2 technical floor area	650 m2 (6,992 ft2)
+ Data Hall No3 technical floor area	650 m2 (6,992 ft2)
+ Data Hall No4 technical floor area	650 m2 (6,992 ft2)
+ MDA A technical floor area	1,000 m2 (10,763 ft2)
+ MDA B technical floor area	50 m2 (539 ft2)
+ Data Hall 7 technical floor area	50 m2 (539 ft2)
+ MDA technical floor area	62 m2 (667 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	79 kg (175 lb)
+ Raised floor - Last load	1,769 kg (3,900 lb)
+ Separate room for UPS	Yes
UPS room with redundant air conditioning	Yes
+ Maximum cabinet capacity	1,100 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	8
+ Tons of cooling for the Data Center	960



SECURITY

+ Access control	Mantra
+ 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	N+1
+ Availability	ICREA Level IV
+ Design capacity in m2	0.807 kW / IT
+ UPS capacity	400 kVA
+ Constant battery monitoring	Yes
+ Transformer capacity	1,500 kVA
+ Number of power connections	2
+ UPS autonomy time	11 minutes
+ Diesel autonomy time	7 days
+ Total diesel tank capacity	60,000 liters (15,850 gl)
+ Number of generators	4
+ Total generator capacity	1,500 kW

CERTIFICATIONS

+ ICREA Nivel IV	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
+ Uptime Institute Tier III	ISO/IEC 14001:2015

