

Data Center KIO Mexico 4 (MEX4)

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 and Central America.. 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

MEX4 joined the KIO portfolio in 2014 and has 3 floors of Data Centers with TIER III characteristics.

Location: Blvd. Magnocentro 6, Centro Urbano Interlomas, 52760 Huixquilucan, State of Mexico.

Coordinates: 19° 24' 1.3"N -99° 16' 27.1"W

CHARACTERISTICS

Design

3,450 m2 of white floor divided into three Data halls, with a reinforced false floor with a height of 0.50 m.

Electrical capacity

It has four 1000 kVA UPS that are redundant, and they have sufficient capacity to provide uninterrupted and filtered power to all of the installed equipment.

Redundancy

2N in the electrical equipment, with four 2 MW power generators. They have diesel storage tanks, providing 4-day autonomy.

Power supply / Service drop

One medium-voltage (3.5 MVA) power supply connection.

Energy efficiency

Average PUE of 1.8

Monitoring

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

Carrier neutral

Open invitation to all Carriers. The current Carriers are:

- ❖ ATC
- ❖ Axtel/Alestra
- ❖ Bestel
- ❖ C3ntro
- ❖ Cogent
- ❖ Flō Networks
- ❖ Izzi
- ❖ MCM (Megacable)
- ❖ Telefónica
- ❖ Telmex
- ❖ TotalPlay
- ❖ Verizon
- ❖ Vivaro

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

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 system.

NOC

Advanced operations and network monitoring center.

Qualified personnel

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

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.

PHYSICAL CHARACTERISTICS

Type of walls	Concrete
Wall thickness	15 cm (6 inches)
Perimeter wall	Yes
Construction of perimeter wall	Concrete
Wheelchair access	Yes
Dedicated Data Center building	Yes
Distance to a police station	500 m (1640.42 ft)
Distance to a fire station	500 m (1640.42 ft)
Data Hall No1 technical floor area	1,500 m ² (16145 ft ²)
Data Hall No2 technical floor area	1,450 m ² (15607.67 ft ²)
Data Hall No3 technical floor area	500 m ² (5381.96 ft ²)
Raised floor - Concentrated load	567 kg (1,250 lb)
Raised floor - Uniform load	1,952.97 kg/m ² (399.99 lb/ft ²)
Raised floor - Impact load	65 kg (143.3 lb)
Raised floor - Last load	2,222 kg (4,898.6 lb)
Separate room for UPS	Yes
UPS room with redundant air conditioning	Yes
Maximum cabinet capacity	1,215 approx.
Availability of space with perimeter cage	Yes
Height above sea level (meters)	2,340 m (7,677.16 ft)
Distance to the ocean (kilometers)	270 km (167.77 miles)

POWER CHARACTERISTICS

Redundancy	2N
Availability	ICREA Level III
Design capacity in m2	0.550 kW / IT
UPS capacity	1,000 kVA
Constant battery monitoring	Yes
Transformer capacity	3,750 kVA
Number of power connections	1
UPS autonomy time	7 minutes
Diesel autonomy time	4 days
Total diesel tank capacity	40,000 liters total (10,566 gal)
Number of generators	4
Total generator capacity	2,025 kW

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	37
Number of redundant units	10
Tons of cooling for the Data Center	1,110

SECURITY

Access control	Through lock gates
Authentication factors	Two (Biometric and proximity card)
Visitor log	Yes
7x24 Security personnel	Yes
Security cameras	Yes
Minimum DVR recording time	90 days
Fire detection	VESDA System
Automatic fire extinguishing	Double interlock preaction

COMMUNICATIONS

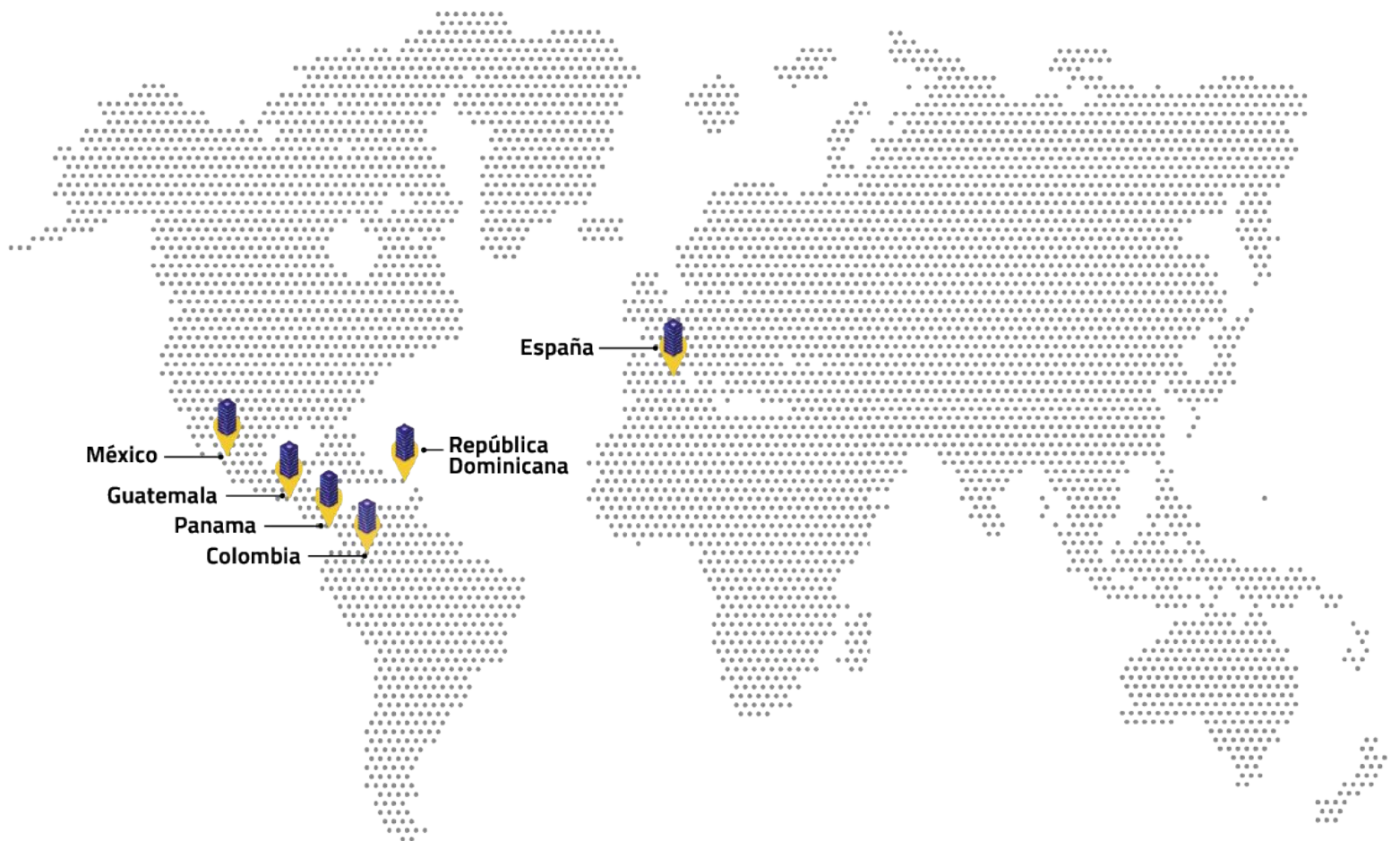
Copper wiring	Category 6A or higher
Fiber wiring	Single mode and multimode
Wire covering	Plenum and/or LSOH
Space for Carriers	Yes
Site Entry	Yes

CERTIFICATIONS

PCI DSS	ISO/IEC20000-1:2018
SSAE18 (SOC 1)	ISO/IEC27001:2013
	ISO/IEC 9001:2015
	ISO/IEC 37001:2016



SSAE18



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