

# DATA CENTER

## KIO Mexico 2

### (MEX2)

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.

KIO MEX2 started operations in 2011, and has TIER IV design characteristics.

Location: is located at Prolongación Paseo de la Reforma 5396, Cuajimalpa, Mexico, 05000.

Coordinates: 19° 21' 49.5" N 99° 16' 50.7" W

## CHARACTERISTICS

### Design

Two computer rooms with a total area of 600 sqm each, 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.

### Power supply / Service drop

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

### 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 1.5.

### 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:

- Arelion
- ATC
- Axtel/Alestra
- Bestel
- BT Global
- C3ntro
- Cirion
- Cogent
- Flō Networks
- GTT
- Izzi
- MCM (Megacable)
- Telmex
- TotalPlay
- Type2Telecom
- Vivaro

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

### 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.

### 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	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 m <sup>2</sup> (6,458.35 ft <sup>2</sup> )
Data Hall No2 technical floor area	600 m <sup>2</sup> (6,458.35 ft <sup>2</sup> )
MDA technical floor area	55.2 m <sup>2</sup> (595 ft <sup>2</sup> )
MDB technical floor area	50 m <sup>2</sup> (539 ft <sup>2</sup> )
Raised floor - Concentrated load	454 kg (1,000 lb)
Raised floor - Uniform load	2,216 kg/m <sup>2</sup> (454 lb/ft <sup>2</sup> )
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 approx.
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)

## POWER CHARACTERISTICS

Redundancy	2N
Availability	ICREA Level V
Design capacity in m <sup>2</sup>	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 liters (21,134 gal)
Number of generators	4
Total generator capacity	2,500 kW

## ELECTROMECHANICAL CHARACTERISTICS (COOLING)

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**

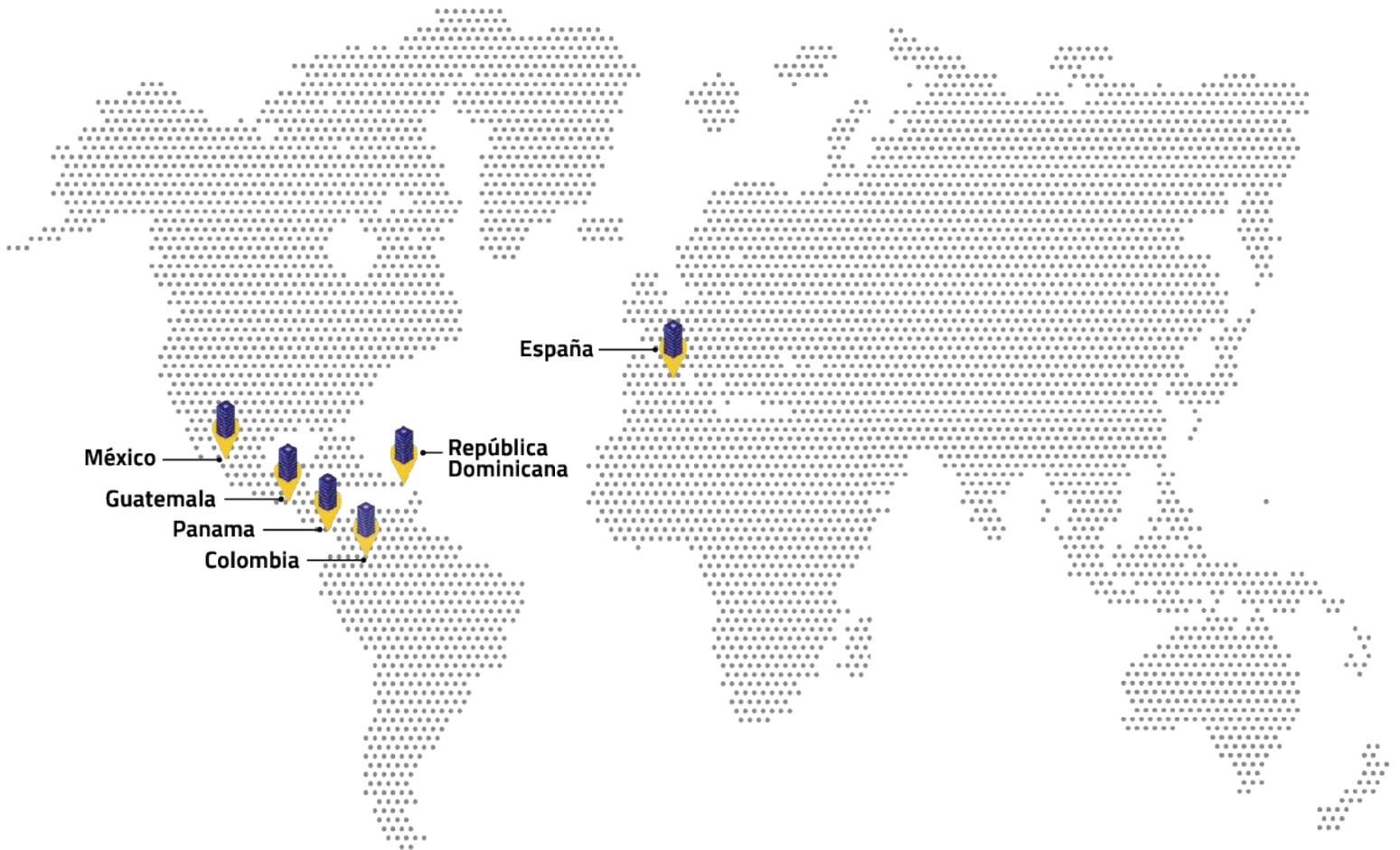
Copper wiring	Category 6A or higher
Fiber wiring	Single mode and multimode
Wire covering	Plenum and/or LSOH
Space for Carriers	Yes
Site Entry	Yes

**CERTIFICATIONS**

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



**SSAE18**



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