

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 MEX 6

Starts operations in 2008

It is located 52 kilometers from Mexico City. Av. Libertad Oriente 415, San Miguel Chapultepec. State of Mexico, C.P. 52240

Coordinates 19° 12'07.3"N 99° 33'19.5"W

## CHARACTERISTICS

### Design

4 computer rooms, 3 available of 610 sqm each (2440 sqm), with a false floor height of 0.90 m, reinforced with anti-seismic pedestals

### Electrical capacity

8 redundant 900 kW UPS, have enough capacity to provide uninterrupted power to all installed equipment. It has an advanced battery monitoring system

### Redundancy

- 2N on all electrical equipment.
- 8 emergency electric generators of 2,000 kW each
- Diesel reserve granting autonomy of 6 days

### Power supply / Service drop

20 MVA (23 kV) in medium-voltage

### Energy efficiency

KIO's green ecosystem with renewable energy

### Monitoring

BMS (Building Monitoring System) monitors the efficiency and the correct functioning of the whole electromechanic infrastructure within the Data Centre

### Carrier neutral

Open invitation to all Carriers. Double connection for carriers with different routes. The current Carriers are:

- Axtel / Alestra
- Bestel
- Flo Networks
- Izzi
- Metrored
- MCM (Megacable)
- Metrocarrier
- Orange
- Telmex
- Totalplay

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

### Fire protection

- Smoke detectors, Manual Fire alarm levers, and audio-visual warning systems in all Data Center áreas
- VESDA (Very Early Smoke Detection Apparatus)
- Argonite Clean Agent fire suppression system.
- CO2 fire suppression system within electrical rooms
- Water-based foam for diesel fuel tanks

### NOC

Advanced Network Operations Center.

### Qualified personnel

Assistance 7x24x365

### Security

Three double-factor authentication controls (proximity and facial recognition biometrics)

A 7X24x365 video surveillance system with a 90-day storage capacity

## PHYSICAL CHARACTERISTICS

Type of Walls	Reinforced concrete
Wall thickness	20 cm (7.87 inch)
Perimeter Wall	Yes
Perimeter Wall material	Reinforced concrete
Disability Access service	Yes
Dedicated Data Center building	Yes
Distance to a Local Police Station	150 mts (0.09 miles)
Distance to a Fire Station	350 mts (0.21 miles)
Phase 1 Data Hall Floor Area	610 m2 (6,566 ft2)
Phase 2 Data Hall Floor Area	610 m2 (6,566 ft2)
Phase 3 Data Hall Floor Area	610 m2 (6,566 ft2)
Phase 4 Data Hall Floor Area	610 m2 (6,566 ft2)
MDA Technical floor area	17 y 18 m2 (183 ft2) (193 ft2)
MPOE Technical floor area	45 m2 (484.37 ft2)
MPOE2 Technical floor area	47 m2 (505.90 ft2)
Raised floor - Concentrated load	1,133 kg (2500 lb)
Raised floor - Uniform load	1,980 kg/m2
Raised floor - Impact load	68 kg (150 lb)
Raised floor - Last load	1,769 kg (3,900 lb)
Separate room for UPS equipment	Yes
UPS room with redundant air conditioning	Yes
Approximate Maximum cabinet capacity	470 approximately
Available space with perimeter cage	Yes
Height above mean sea level	2,670 m (8,759.84 ft)
Distance to the ocean (kilometers)	385 km (239.22 miles)

## POWER CHARACTERISTICS

Electrical Redundancy	2N
Availability	Features Uptime TIER III
Design capacity in m2	1.5 kW/m2
Power in Cabinet	4.3 kW/Cabinet
UPS capacity	(8) 900 kVA
Constant battery monitoring	Yes
Transformer Capacity	(2) 3,000 kVA y (2) 4,000 kVA
Number o Power Connections	2
UPS autonomy time	6 min
Diesel autonomy time	6 days
Total diesel tank capacity	144,000 total liters (38040.77 gl)
Number of Generators	8
Generators capacity	2,000 kW

## ELECTROMECHANICAL CHARACTERISTICS (COOLING)

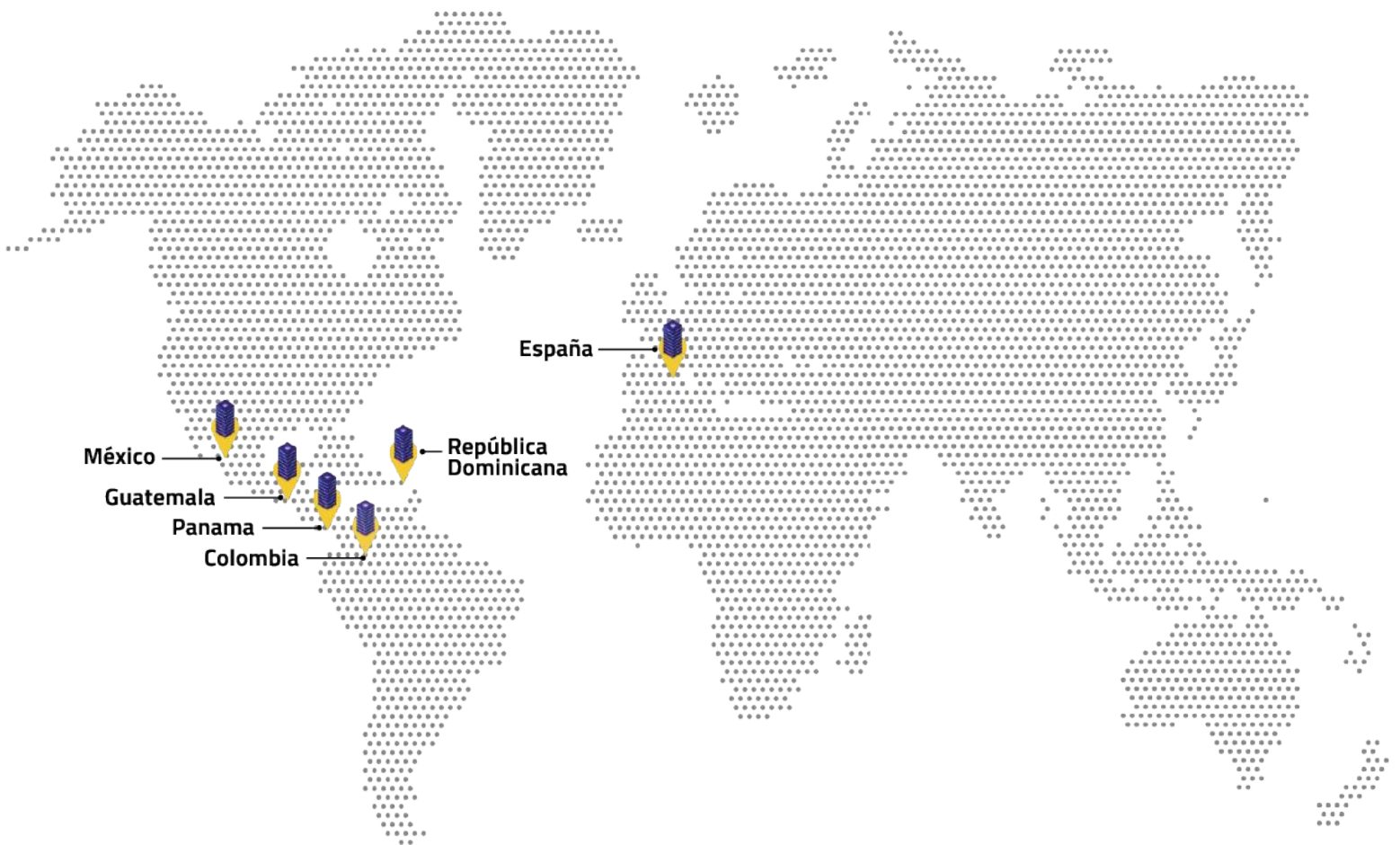
Cooling type	Frozen water
Total Units	48
Redundant Units	8
Redundancy in controllers	N+2
Redundancy in chillers	2N
Data Centre Cooling Tons capacity	1920

## SECURITY

Access Control	Main door locks
Authentication factors	Two (Facial recognition and proximity card)
Visitors Log	Yes
Security personnel 7x24	Yes
Security Cameras	Yes
DVR minimum time recording	90 days
Fire Detection System	VESDA
Automatic Fire Extinction System	Clean Agent System

## COMMUNICATIONS

Copper wiring	6A category or higher
Fiber wiring	Single and Multi Mode wiring
Wire covering	Plenum y/o LSOH
Available space for Carriers	Yes



Global, secure and efficient  
Data Centers for your business