


DATA CENTER

# KIO MEX|6

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° 12'07.3"N 99° 33'19.5"W

**KIO MEX|6** Began operations in 2018

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

## CHARACTERISTICS

### DESIGN

4 computer rooms, 3 available of 610 sqm each (2425 sqm total), 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

### ENERGY EFFICIENCY

KIO's green ecosystem with renewable energy. With a 1.6 design PUE

### MONITORING

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

### NOC

Advanced Network Operations Center.

### POWER SUPPLY / SERVICE DROP

20 MVA (23 kV) in medium-voltage.

### QUALIFIED PERSONNEL

Assistance 7x24x365

### CARRIER NEUTRAL

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

|        |              |        |
|--------|--------------|--------|
| Cogent | Flō Networks | Telmex |
| IENTC  | Metrocarrier |        |

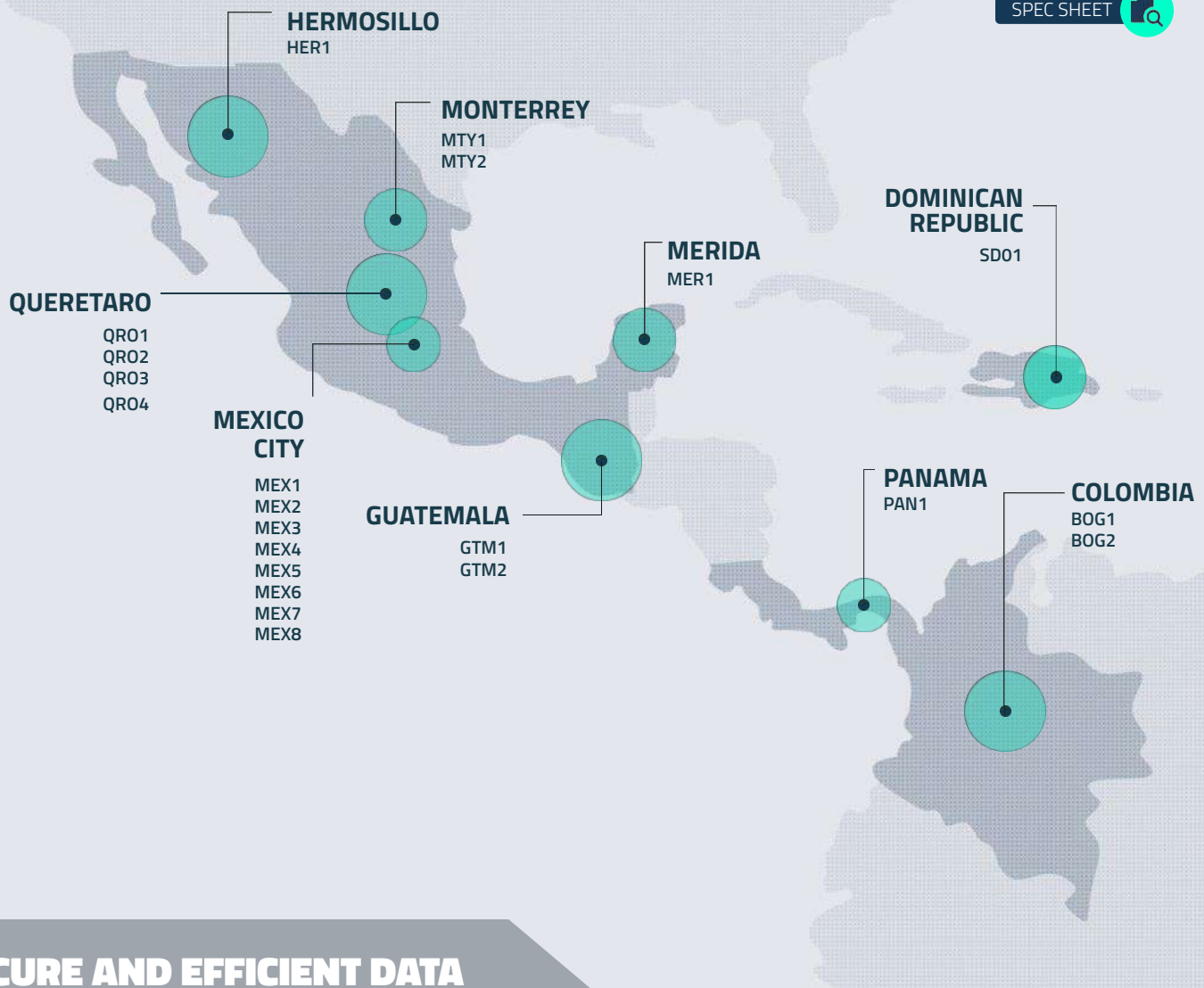
KIO also has a high-speed interconnection network among its **Data Centers**.

### SECURITY

Three double-factor authentication controls (proximity and facial recognition biometrics). A 7X24x365 video surveillance system with a 90-day storage capacity.

### FIRE PROTECTION

Smoke detectors, Manual Fire alarm levers, and audio-visual warning systems in all Data Center areas  
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.



## GLOBAL, SECURE AND EFFICIENT DATA CENTERS FOR YOUR BUSINESS

### PHYSICAL CHARACTERISTICS

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| + Type of Walls                      | <b>Reinforced concrete</b>                          | + Raised floor - Concentrated load       | <b>1,133 kg (2500 lb)</b>                       |
| + Wall thickness                     | <b>20 cm (7.87 inch)</b>                            | + Raised floor - Uniform load            | <b>1,980 kg/m<sup>2</sup></b>                   |
| + Perimeter Wall                     | <b>Yes</b>  | + Raised floor - Impact load             | <b>68 kg (150 lb)</b>                           |
| + Perimeter Wall material            | <b>Reinforced concrete</b>                          | + Raised floor - Last load               | <b>1,769 kg (3,900 lb)</b>                      |
| + Disability Access service          | <b>Yes</b>  | + Separate room for UPS equipment        | <b>Yes</b>                                      |
| + Dedicated Data Center              | <b>Yes</b>  | UPS room with redundant air conditioning | <b>Yes</b>                                      |
| + Distance to a Local Police Station | <b>1,500 m (4,921 ft)</b>                           | + Approx. Maximum cabinet capacity       | <b>470 approx.</b>                              |
| + Distance to a Fire Station         | <b>350 m (1,148,29 ft)</b>                          | Available space with perimeter cage      | <b>Yes</b>                                      |
| + Phase 1 Data Hall Floor Area       | <b>610 m<sup>2</sup> (6,566 ft<sup>2</sup>)</b>     | + Height above mean sea level            | <b>2,670 m (8,759.84 ft)</b>                    |
| + Phase 2 Data Hall Floor Area       | <b>610 m<sup>2</sup> (6,566 ft<sup>2</sup>)</b>     | + Distance to the ocean (kilometers)     | <b>385 km (239.22 miles)</b>                    |
| + Phase 3 Data Hall Floor Area       | <b>610 m<sup>2</sup> (6,566 ft<sup>2</sup>)</b>     | + MPOE technical floor area              | <b>45 m<sup>2</sup> (484.37 ft<sup>2</sup>)</b> |
| + Phase 4 Data Hall Floor Area       | <b>610 m<sup>2</sup> (6,566 ft<sup>2</sup>)</b>     | + MPOE2 Technical floor area             | <b>47 m<sup>2</sup> (505.90 ft<sup>2</sup>)</b> |
| + MDA Technical floor area           | <b>17/18 m<sup>2</sup> (183/193 ft<sup>2</sup>)</b> |  |   |

### ELECTROMECHANICAL CHARACTERISTICS (REFRIGERATION)

|                                   |              |
|-----------------------------------|--------------|
| Cooling type                      | Frozen water |
| Total Units                       | 648          |
| 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 días                                     |
| + Fire Detection                 | 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 and/or LSOH           |
| + Available space for Carriers Site Entry | Yes<br>Yes                   |

## POWER CHARACTERISTICS

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