



# DATA CENTER MEX | 5



**KIO Networks Group** is an international company founded in 2002 that provides critical mission information technology services and outsourcing services through cutting-edge Data Centers with the highest degree of security, availability and density, in Mexico, Central America, the Caribbean and Europe.

**KIO Networks** offers integrated ICT services and solutions to both the public and private sectors, with the support of more than 40 Data Centers in a safe, scalable and professional environment.

**KIO MEX | 5** joined the KIO portfolio in 2014, with a technological complex with TIER III characteristics and certification.

**KIO MEX | 5** is located in the Mexico City Metropolitan Area at: Blvd. Benito Juárez 20, esquina Av. López Portillo, Colonia San Mateo Cuauhtepc, Tultitlán, State of Mexico 54948.

## CHARACTERISTICS

**Design:** Computer floor with an area of 8,000 m<sup>2</sup> divided into 8 rooms, it has a false floor of a height of 1 m with earthquake-proof pedestals.

**Electrical capacity:** Thirty-two 600 kVA UPS that are redundant and have sufficient capacity to provide uninterrupted power to all of the installed equipment. They also have an advanced battery monitoring system.

**Redundancy:** 2N in the distribution from the UPS to the load point, with twelve 2,400 kW generators in an N+1 configuration that have diesel storage tanks providing 7-day autonomy.

**Power supply / Service drop:** 3 power connection supplies / service drops, two of which are 7.5 MVA delivered through two routes, underground and through the air for critical loads, and a third 2 MVA connection for general services.

**Energy efficiency:** KIO Green with renewable energy and indirect and direct 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 1.6.

**Carrier neutral:** Open invitation to all Carriers. The current Carriers are: AT&T, Axtel / Alestra, Bestel, C3ntro, Cogent, Marcatel, MCM Telecom, Metrocarrier, redIT / ATC, Telmex, TotalPlay, Transtelco, among others. KIO also has a high-speed interconnection network among its Data Centers.

**Security:** It has 5 security controls, including two-factor authentication (proximity and facial recognition biometrics) using 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. Has a fire suppression system with a clean agent, as well as a Very Early Smoke Detection Apparatus (VESDA) and a double interlock preaction system.

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

**NOC:** Advanced operations and network monitoring center.

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

## 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	3 km (1.86 miles)
Distance to a fire station	5 km (3.10 miles)
Data Hall No1 technical floor area	1,073 m2 (11,549.67 ft2)
Data Hall No2 technical floor area	1,073 m2 (11,549.67 ft2)
Data Hall No3 technical floor area	870.51 m2 (9,370.09 ft2)
Data Hall No4 technical floor area	931.65 m2 (10,028.19714 ft2)
MDA A technical floor area	62.51 m2 (672.85 ft2)
MDA B technical floor area	58.06 m2 (624.95 ft2)
MPOE A technical floor area	60 m2 (646 ft2)
MPOE B technical floor area	40 m2 (430 ft2)
Raised floor - Concentrated load	567 kg (1,250 lb)
Raised floor - Uniform load	1,952.97 kg/m2 (400 lb/ft2)
Raised floor - Impact load	68 kg (150 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	3,478 approx.
Availability of space with perimeter cage	Yes
Height above sea level (meters)	2,235 m (7,332.67 ft)
Distance to the ocean (kilometers)	250 km (155.34 miles)

## POWER CHARACTERISTICS



Redundancy	2N
Availability	UI TIER III
Design capacity in m2	1 kW / IT
UPS capacity	(32) 600 kVA
Constant battery monitoring	Yes
Transformer capacity	2,500 kVA
Number of power connections	3
UPS autonomy time	6 minutes
Diesel autonomy time	7 days
Total diesel tank capacity	203,562 liters total (53,852 gal)
Number of generators	7
Total generator capacity	2,750 kW

## ELECTROMECHANICAL CHARACTERISTICS (COOLING)



Number of total units	30
Number of redundant units	4
Tons of cooling for the Data Center	2,850

## 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 and smoke detectors
Automatic fire extinguishing	Double interlock preaction

## COMMUNICATIONS



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

## CERTIFICATIONS



ISO / IEC 20000-1	SSAE18 (SOC 2)
NMX-I-20000-1-NYCE	PCI DSS
ISO / IEC 27001	ICREA Level IV
NMX-I-27001-NYCE	ISO 22301
ISO 9001	CEEDA Gold
NMX-CC-9001-IMNC	Uptime Institute TIER
ISO 37001	III Design
SSAE18 (SOC 1)	

