



DATA CENTER MEX | 4



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 | 4 joined the KIO portfolio in 2014 and has 3 floors of Data Centers with TIER III characteristics.

KIO MEX | 4 is located at: Blvd. Magnocentro 6, Centro Urbano Interlomas, 52760 Huixquilucan, State of Mexico.

CHARACTERISTICS

Design: 3,450 m² of white floor divided into three Computer Rooms, 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 filtrated 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 / service drop.

Energy efficiency: Average PUE of 1.8.

Carrier neutral: Open invitation to all Carriers. The current Carriers are: Axtel / Alestra, Bestel, C3ntro, Marcatel, redIT / ATC, Telefónica, Telmex, Transtelco, Verizon, among others. KIO also has a high-speed interconnection network among its Data Centers.

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.

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

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.

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	1952.97 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 (7677.16 ft)
Distance to the ocean (kilometers)	270 km (167.77 miles)

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 and multi-mode
Wire covering	Plenum and / or LSOH
Space for Carriers	Yes

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

CERTIFICATIONS



ISO / IEC 20000-1	ISO 37001
NMX-I-20000-1-NYCE	SSAE18 (SOC 1)
ISO / IEC 27001	SSAE18 (SOC 2)
NMX-I-27001-NYCE	PCI DSS
ISO 9001	ICREA Level III
NMX-CC-9001-IMNC	



ELECTROMECHANICAL CHARACTERISTICS (COOLING)



Number of total units	37
Number of redundant units	10
Tons of cooling for the Data Center	1110

