



DATA CENTER

KIO QRO|1

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.



20°33'59.2"N 100°15'24.8"W

QRO|1 in 2007, and it is one of the most advanced Data Center in the region. It has an **ICREA VI** level certification for its design and construction.

Located 200 km from Mexico City at: **Cerrada de la Princesa No. 4**, Parque Industrial El Marques, **Queretaro, 76246**

CHARACTERISTICS



DESIGN

Seven computer rooms with a total area of 5,290 sqm , it has a false floor of a height of 0.90 m reinforced, with anti-seismic pedestals.



ELECTRICAL CAPACITY

20 redundant **750 kVA** UPS 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 all the electrical equipment, with twelve **2,000 kW** emergency power generators, with a diesel reserve, providing **7-day autonomy**.



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 1.7.



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.



POWER SUPPLY / SERVICE DROP

Two medium-voltage 14 MVA (34.5 kV) power supply connections / service drops.



QUALIFIED PERSONNEL

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



CARRIER NEUTRAL

Open invitation to all Carriers. The current Carriers are:

Arelion	EdgeUno	Miami Transcoding	TotalPlay
ATC	Fibra TV	Neutral Networks	TV Rey
Axtel / Alestra	Flo Networks	Orange	USSI Global
Bestel	Gold Data	PCCW Global	Vivaro
BT Global	IENTC	Quattrocom	Wantelco
C3ntro	Izzi	Sierra IG	Zayo
Cirion	MCM (Megacable)	Starlink	
Cogent	Metrocarrier	Telmex	

Additionally, **KIO** has a high-speed interconnection network between its Data Centers and connects with others through **DE-CIX** and **Megaport**.



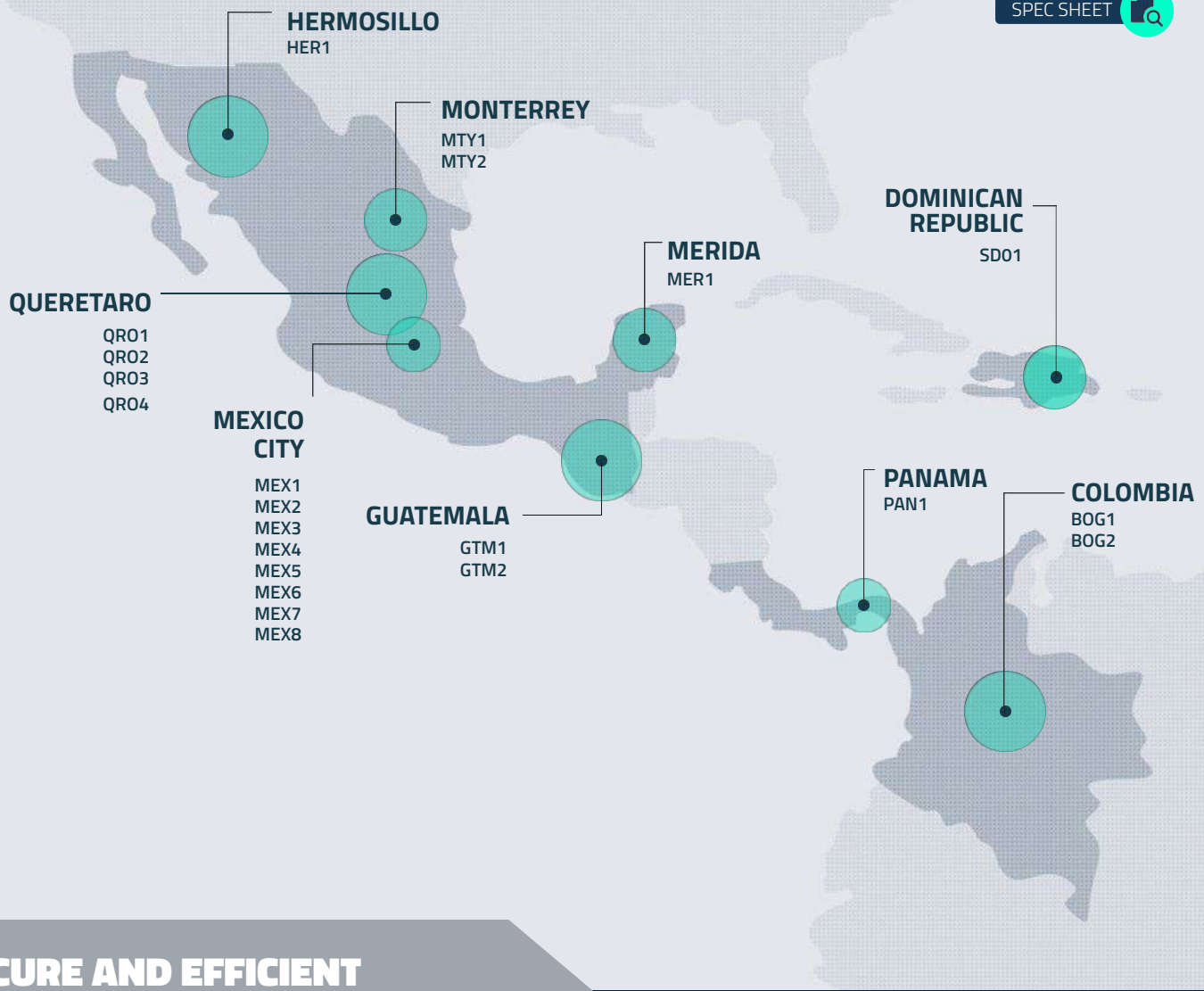
SECURITY

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.



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 system.



GLOBAL, SECURE AND EFFICIENT DATA CENTERS FOR YOUR BUSINESS

PHYSICAL CHARACTERISTICS

+ Type of walls	Reinforced concrete
+ Wall thickness	20 cm (7.87 inch)
+ 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 millas)
+ Distance to a fire station	15 km (9.32 millas)
+ Data Hall N° 1 technical floor area	m2 (10,763 ft2)
+ Data Hall N° 2 technical floor area	1,000 m2 (10,763 ft2)
+ Data Hall N° 3 technical floor area	1,000 m2 (10,763 ft2)
+ Data Hall N° 4 technical floor area	1,000 m2 (10,763 ft2)
+ Data Hall N° 5 technical floor area	1,000 m2 (10,763 ft2)
+ Data Hall N° 6 technical floor area	64 m2 (688 ft2)
+ Data Hall N° 7 technical floor area	102 m2 (1097 ft2)
+ MDA technical floor area	62 m2 (667 ft2)
+ MPOE technical floor area	53 m2 (570,487 ft2)
+ MPOE 2 technical floor area	52 m2 (559,723 ft2)

Raised floor - Concentrated load	567 kg (1,250 lb)
+ Raised floor - Uniform load	1,953 kg/m2
+ Raised floor - Impact load	79 kg (175 lb)
+ Raised floor - Last load	1,769 kg (3,900 lb)
+ Separate room for UPS	Yes
UPS room with redundant air conditioning	Yes
+ Maximum cabinet capacity	2,347 aprox
Availability of space with perimeter cage	Yes
+ Height above sea level (meters)	1,820 m (5,971.12 ft)
Distance to the ocean (kilometers)	679 km (421.91 millas)

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	52
Number of redundant units	10
Tons of cooling for the Data Center	1,800



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 system
+ Automatic fire	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

POWER CHARACTERISTICS

+ Redundancy	2N
+ Availability	ICREA Level V
+ Design capacity in m2	1.2 kW / IT
+ UPS capacity	750 kVA
+ Constant battery monitoring	Yes
+ Transformer capacity	1,500 kVA
+ Number of power connections	2
+ UPS autonomy time	6 minutes
+ Diesel autonomy time	7 days
+ Total diesel tank capacity	180,000 liters total (47,550.9695 gal)
+ Number of generators	12
+ Total generator capacity	2,000 kW

CERTIFICATIONS

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

