



DATA CENTER

KIO GTM|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.

14°39'21.9"N 90°32'40.1"W

KIO GTM|1 started up operations in 2013 and has a technology complex with an area of 2,500 m2, and boasts the country's most modern, robust and high-capacity Data Center. It has TIER IV characteristics and design certification.

Located at: 8a Avenue 19-54, Condado el Naranjo, Zone 4 of Mixco, Guatemala, Guatemala.

CHARACTERISTICS



DESIGN

Three computer rooms with an area of 234 m2, it has a false floor of a height of 0.90 m reinforced with earthquake-proof pedestals.



ELECTRICAL CAPACITY

It has two 250 kVA UPS that are redundant and have sufficient capacity to provide uninterrupted and filtered power to all of the equipment installed in the accommodation area for the phase. They also have an advanced battery monitoring system.



REDUNDANCY

2N in the electrical equipment, with two 450 kVA emergency power generators, with two diesel storage tanks, providing 7-day autonomy. The cooling equipment has a 2N configuration.



ENERGY EFFICIENCY

KIO has 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 1.5.



MONITORING

It has a Building Monitoring System (BMS), which monitors the efficiency and proper functioning of the entire electromechanical infrastructure of the Data Center.



NOC

Advanced operations and network monitoring center.



POWER SUPPLY / SERVICE DROP

Medium-voltage 13.2 kV power supply / service drop.



QUALIFIED PERSONNEL

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



CARRIER NEUTRAL

Open invitation to all Carriers. The current Carriers are:

Blue Net	Comnet	Señal Nacional
Broadcom	Edge Uno	Tigo
BT	Giganet	Ufinet
Cable & Wireless	Innova	
Cablecolor	Optel	
Claro	Rocknets	

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



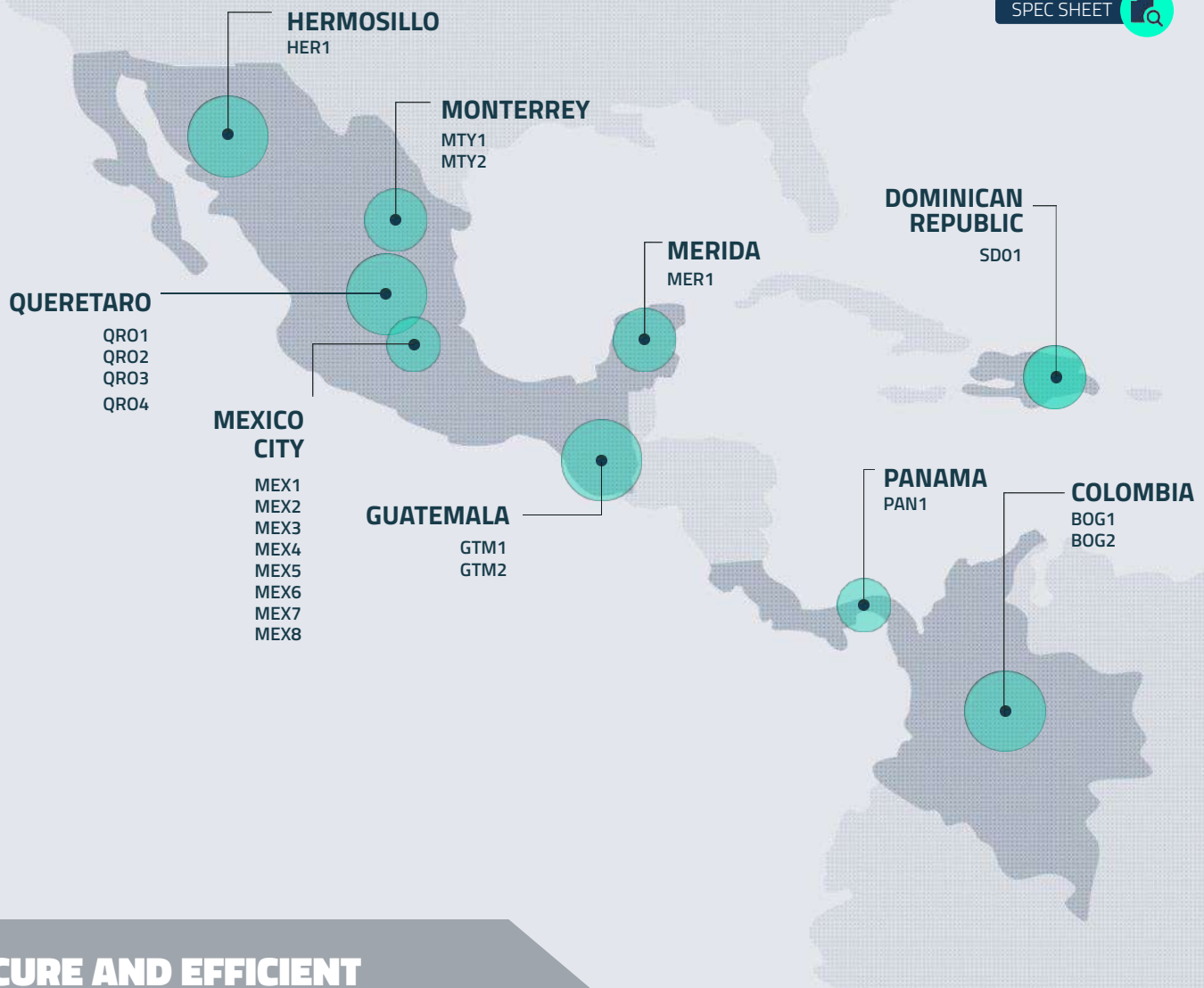
SECURITY

There are 5 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, 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.



GLOBAL, SECURE AND EFFICIENT DATA CENTERS FOR YOUR BUSINESS

PHYSICAL CHARACTERISTICS

+ Type of walls	Reinforced concrete
+ Wall thickness	9 cm (3.45 inches)
+ Perimeter wall	Yes
+ Construction of perimeter wall	Reinforced concrete
+ Wheelchair access	Yes
+ Dedicated Data Center building	Yes
+ Distance to a police station	2.8 km (1.73 millas)
+ Distance to a fire station	20 m (65.61 ft)
+ Data Hall No1 technical floor area	174 m² (1,872.92 ft²)
+ MDA technical floor area	6 m² (64.58 ft²)
+ MDB technical floor area	8 m² (86.11 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	65 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	108 aprox
+ Space availability with perimeter cage	Yes
+ Height above sea level (meters)	1,560 m (5,118.11 ft)
+ Distance to the ocean (kilometers)	120 km (74.56 miles)

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

+ Number of total units	12
+ Number of redundant units	4
+ Tons of cooling for the Data Center	160



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 mode and multimode
+ Wire covering	Plenum and/or LSOH
+ Space for Carriers	Yes
+ Site Entry	Yes

POWER CHARACTERISTICS

+ Redundancy	2N
+ Availability	UI Tier IV Design
+ Design capacity in m2	1.2 kW / IT
+ UPS capacity	250 kVA
+ Constant battery monitoring	Yes
+ Transformer capacity	500 kVA
+ Number of power connections	1
+ UPS autonomy time	11 minutes
+ Diesel autonomy time	7 days
+ Total diesel tank capacity	11,356 liters (2,999.93 gal)
+ Number of generators	2
+ Total generator capacity	450 kW

CERTIFICATIONS

+ ICREA IV Design	CEEDA SILVER
+ PCI DSS	ISO/IEC 27001:2013
+ SSAE18	ISO/IEC 37001:2016

