



Data Center

# KIO PAN|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.



8°55'11.6"N 79°35'37.2"W

**KIO PAN|1** started up operations in 2012, and its two Data Centers are the most advanced of the region, with Uptime Institute **TIER III** characteristics and design & construction certification.

**Location:** West Service Street, Building 3890, Panama Pacific International Business Park (Former Howard Air Base) Arraijan, Republic of Panama.

## CHARACTERISTICS



### DESIGN

Two computer rooms with an area of 770 m2, it has a false floor of a height of 0.90 m reinforced with earthquake-proof pedestals.



### ELECTRICAL CAPACITY

It has four 625 kVA UPS with sufficient capacity to provide uninterrupted power to the installed equipment. They also have an advanced battery monitoring system.



### REDUNDANCY

2N in the electrical equipment, with four 1,250 kW emergency power generators. They have diesel storage tanks, providing 7-day autonomy.



### ENERGY EFFICIENCY

**KIO Green** with cold aisle containment helping deliver an average PUE of 1.8.



### 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

Two medium-voltage 5 MVA (23 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:

Cable & Wireless	Ovnicom
Celero	Telecarrier
Gas Natural	Transocean
Fenosa	Ufinet
Gold Data	Wecom
Metro MPLS	

**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, as well as a Very Early Smoke Detection Apparatus (VESDA) and a double interlock preaction SECO system.



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

Type of walls	<b>Reinforced concrete</b>
+ Wall thickness	<b>18 cm (7 inches)</b>
+ Perimeter wall	<b>Yes</b>
+ Construction of perimeter wall	<b>Reinforced concrete</b>
+ Wheelchair access	<b>Yes</b>
+ Dedicated Data Center building	<b>Yes</b>
+ Distance to a police station	<b>4 km (2.48 miles)</b>
+ Distance to a fire station	<b>300 m (0.18 miles)</b>
+ Data Hall No1 technical floor area	<b>223 m2 (2,400 ft2)</b>
+ Data Hall No2 technical floor area	<b>385 m2 (4,144 ft2)</b>
+ MDA technical floor area	<b>12 m2 (129.16 ft2)</b>
+ MDB technical floor area	<b>32.70 m2 (352 ft2)</b>
+ Raised floor - Concentrated load	<b>567 kg (1,250 lb)</b>
+ Raised floor - Uniform load	<b>1,952.97 kg/m2 (400 lb/ft2)</b>
+ Raised floor - Impact load	<b>65 kg (150 lb)</b>
+ Raised floor - Last load	<b>2,222 kg (4,900 lb)</b>

Separate room for UPS	<b>Yes</b>
UPS room with redundant air conditioning	<b>Yes</b>
+ Maximum cabinet capacity	<b>382 aprox</b>
Space availability with perimeter cage	<b>Yes</b>
+ Height above sea level (meters)	<b>9 m (29.52 ft)</b>
+ Distance to the ocean (kilometers)	<b>3km (1.86 miles)</b>

### ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	<b>12</b>
Number of redundant units	<b>4</b>
Tons of cooling for the Data Center	<b>240</b>



## SECURITY

+ Access control	Mantrap
+ Authentication factors	(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	2 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 III
+ Design capacity in m2	1 kW / IT
+ UPS capacity	625 kVA
+ Constant battery monitoring	Yes
+ Transformer capacity	1,500 kVA
+ Number of power connections	2
+ UPS autonomy time	7 minutes
+ Diesel autonomy time	7 days
Total diesel tank capacity	37,800 liters (10,000 gl)
+ Number of generators	2
+ Total generator capacity	1,250 kW

## CERTIFICATIONS

+ Uptime Institute Tier III	<b>Design and construction</b>
+ LEED Silver	<b>Efficiency</b>
+ PCI DSS	<b>Security</b>
+ SSAE18	<b>Quality of the information</b>
ISO/IEC27001	<b>International standard</b>



**SSAE18**

