

# DATA CENTER

## KIO Panama 1 (PAN1)

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 and Central America. 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.

KIO PAN1 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.

KIO PAN1 located at: West Service Street, Building 3890, Panama Pacific International Business Park (Former Howard Air Base) Arraiján, Republic of Panama.

Coordinates 8°55'11.6"N 79°35'37.2"W

## CHARACTERISTICS

### Design

Two computer rooms with an area of 385 m2 each, 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.

### Power supply / Service drop

Two medium-voltage 5 MVA (23 kV) power supply connections / service drops.

### 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.

### Carrier neutral

Open invitation to all Carriers.

The current Carriers are:

- Cable & Wireless
- Columbus Networks
- Gas Natural Fenosa
- GoldData
- Metro MPLS
- Multipunto
- Telecarrier
- Transocean
- Ufinet

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

### 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.

### NOC

Advanced operations and network monitoring center.

### Qualified personnel

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

### 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.

## PHYSICAL 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	2.95 km (1.83 miles)
Distance to a fire station	1.19 km (0.76 miles)
Data Hall No1 technical floor area	385 m2 (4,144 ft2)
Data Hall No2 technical floor area	385 m2 (4,144 ft2)
MDA technical floor area	53.2 m2 (572 ft2)
MDB technical floor area	32.70 m2 (352 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	382 approximately
Space availability with perimeter cage	Yes
Height above sea level (meters)	9 m (29.52 ft)
Distance to the ocean (kilometers)	3 km (1.86 miles)

## 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 gal)
Number of generators	2
Total generator capacity	1,250 kW

## ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	12
Number of redundant units	4
Tons of cooling for the Data Center	240

## 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

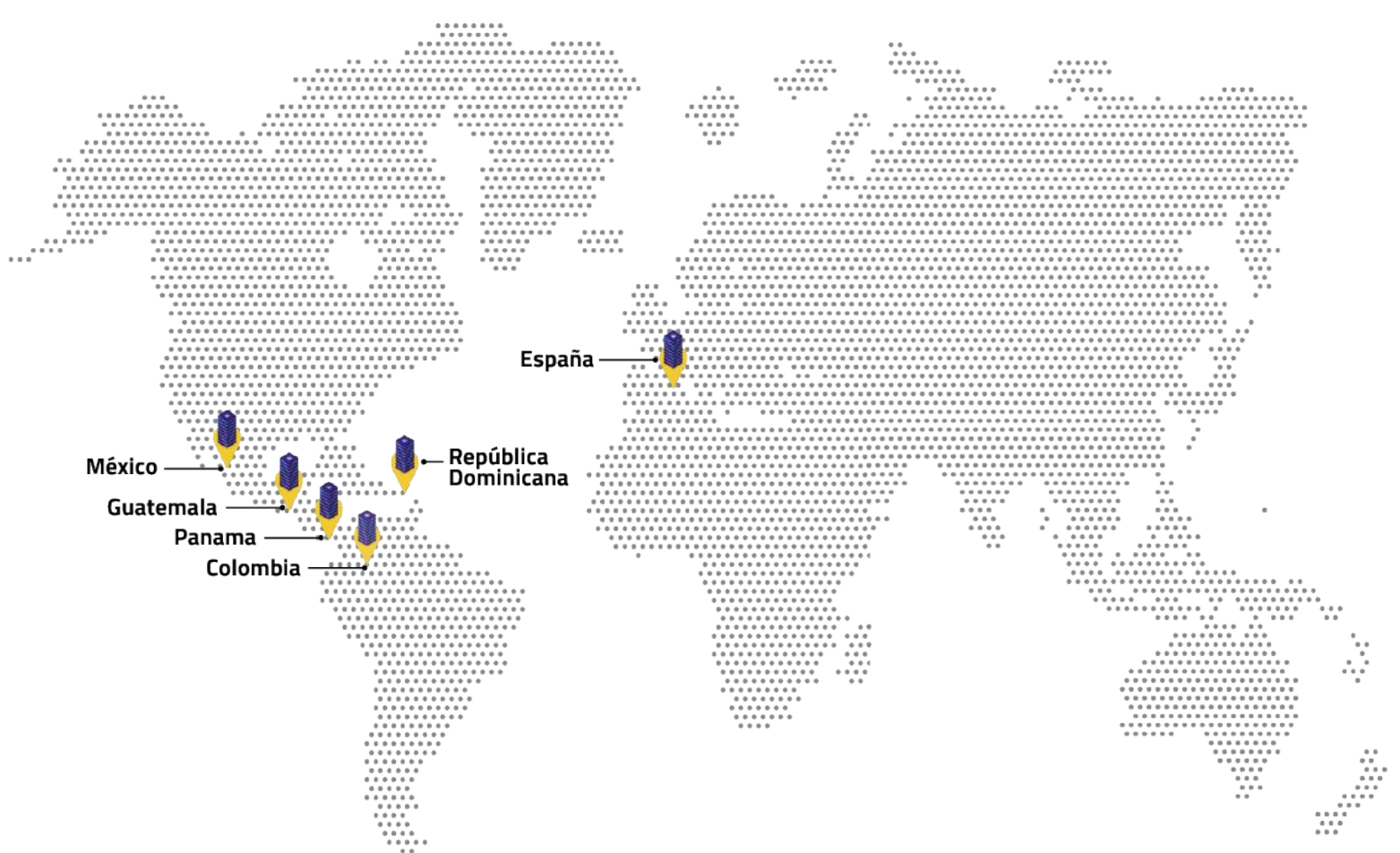
Copper wiring	Category 6A or higher
Fiber wiring	Single mode and multimode
Wire covering	Plenum and/or LSOH
Space for Carriers	Yes
Site Entry	Yes

## CERTIFICATIONS

Uptime Institute Tier III	Design and construction
LEED Silver	Efficiency
PCI DSS	Security
SSAE18	Quality of the information
ISO/IEC27001:2013	International standard



SSAE18



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