

DATA CENTER

KIO Hermosillo 1 (HER1)

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 HER1 started operations in 2019, this Data Centers have TIER III characteristics.

KIO HER1 is located at Calle General Bernardo Reyes No. 98 en la Ciudad de Hermosillo, Sonora, CP 83190.

Coordinates 29°05'7.6"N 110°57'40"W

CHARACTERISTICS

Design

Seven ATOM computer rooms with a capacity of 73 m2 in total, with a height of 2.51 m from false floor to ceiling, equipped with rails to slide the racks across the width of the container

Electrical capacity

It has six UPS of 219.6 kVA, that are redundant and have sufficient capacity to provide uninterrupted and filtered power to the installed equipment. They also have an advanced battery monitoring system.

Redundancy

2N in the electrical equipment, with two emergency electrical generators of 600 kW each. They have diesel storage tanks, providing an autonomy of 3.5-days.

Power supply / Service drop

One medium-voltage electrical connection of 13,200 VAC.

Energy efficiency

KIO Green with renewable energy, which allows electrical energy savings in the cooling system, when the ambient humidity and temperature conditions are ideal, helping to achieve a PUE by design of 1.7.

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: Altan Redes, Bestel, Axtel, Telmex y Alestra

Fire protection

It has smoke detectors, manual stations and audiovisual alerting in all areas. It has an early fire detection system and a preaction system with double interlock.

NOC

Advanced operations and network monitoring center.

Qualified personnel

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

Security

It has double authentication security controls (proximity), 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

Perimeter wall	Yes
Wheelchair access	Yes
Dedicated Data Center building	Yes
Distance to a police station	1.1 km (0.683 miles)
Distance to a fire station	1.1 km (0.683 miles)
ATOM MINI technical floor area (4)	11 m2 (118.48 sqft)
ATOM CORE technical floor area (2)	21 m2 (226 sqft)
ATOM SPARK technical floor area (1)	6 m2 (64.58 sqft)
MDA technical floor area	17 m2 (182.98 sqft)
Raised floor - Last upload	567 kg (1,250 lb)
UPS room has air conditioning	Yes
Maximum cabinet capacity	32
Height above sea level (meters)	6.54 m (21.784 ft)
Distance to the ocean (kilometers)	106 km (65.86 miles)

POWER CHARACTERISTICS

Redundancy	2N
Availability	TIER III
Design capacity in m2	188.1 kW / IT
UPS capacity	219.6 kVA
Constant battery monitoring	Yes
Transformer capacity	750 kVA
Number of power connections	1
UPS autonomy time	6 minutes
Diesel autonomy time	3.5 days
Total diesel tank capacity	14,000 litros (3698.41 gl)
Number of generators	2
Total generator capacity	600 kW

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	17
Number of redundant units	7
Tons of cooling for the Data Center	112.5

SECURITY

Access control	Folding door
Authentication factors	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

