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Nairobi One (NBO1) Data Center

Karen, Nairobi



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Main Site Features

Nairobi One (NBO1)

SITE INFORMATION AND LOCATION

NAME	Nairobi One (NBO1)
DATA CENTER LOCATION	LRC Road, off Langata South Road Karen - Nairobi
COORDINATES	-1.34986, 36.74916
AIRPORTS/RAIL STATIONS	International - Jomo Kenyatta (23.7km) Regional - Wilson Airport (8.4km) Nairobi South Railway Station (10km)
PUBLIC TRANSPORT NEARBY	Langata South Road

TOTAL SITE FEATURES

TOTAL AREA	4,046 sqm
TECHNICAL SPACE	Data Center Floor: 624sqm Meet Me Rooms: 80sqm Energy Centers: 190sqm
FLOOR LOADING	1,500kg/sqm
BUILDING FOOTPRINT	Length 51m X Width 41m
RAISED FLOOR HEIGHT	800mm
ACCESS TO BUILDING	24 hours a day, 7 days a week, 365 days a year
BUILDING	Concrete structure with Mezzanine office space
ADDITIONAL SPACE	Rentable Office Space Delivery, Storage and Staging Area Client, Meeting Rooms, Kitchenette

DATA CENTER FEATURES

TYPE OF SPACE AVAILABLE FOR COLOCATION	1/4 racks, 1/2 racks and 45U cabinets in shared space, caged space
UTILITY FEATURES	2.5MVA fully rated, 11,000V with 2 diverse feeds and 1 dedicated line
DISTRIBUTION TO RACK	2N (A & B feed) with single phase and/or 3-phase from 16A to 64A
GENERATORS	4 X 850 kVA/645kW Data Center Continuous Duty, tested and certified
REDUNDANCY	N+1 Generators, 2N UPS, N+2 for Cooling with 50% on UPS power, 2N MMR, 2N Fibre Entry
UPS	825kW Galaxy VX = 2N
LIGHTING	Low energy, LED Lighting
FLOOR TILES	600mm * 600mm
FLOOR GRILL AIRFLOW	1,810 to 3,650 m ³ /hr
FLOOR VOID	800mm
CUSTOMER SUPPORT	Remote hands and eyes, Cross-Connects, reception and storage of equipment

COOLING AND ENVIRONMENT

TEMPERATURE SET POINT	15°C to 32°C with a set point of 24°C
REDUNDANCY	N+2 CRACs with redundant power supply and built-in ATS and 50% of cooling on UPS
IN RACK COOLING CAPABILITY	Available if required
STANDARDIZATION	ASHRAE 2015 Class A1

CONNECTIVITY

CARRIER NEUTRAL	Over 30 different carriers to choose from and growing
FIBRE ENTRY	2 diverse routes
DIVERSITY	Multiple fibre entries from multiple carriers ensures redundant connections
LOCAL AND INTERNATIONAL CONNECTIONS	Multiple local and international access carriers to provide reliable and affordable connections to/from Nairobi One
SATELLITE AND ANTENNAE CONNECTION	Antennae equipment and connectivity to adjacent teleport
PEERING	Internet exchanges • KIXP • Asteroid

SECURITY

ACCESS TO SITE	24*7*365 on site security team, proximity badge and biometric protection
SECURITY ON SITE	Five physical security layers and dual security control provide defence in depth
SECURITY MONITORING	24 on-site CCTV cameras monitored 24*7*365 from NOC
DELIVERY & LOADING	Secure managed delivery and loading area available 24*7*365 Prior notification and details of requirements e.g. Forklifts
CCTV + ACCESS CONTROL	Records kept for a minimum of 90 days
STAGING	Dedicated secure staging area.
CERTIFICATION	PCI DSS, ISO27001, TIER III- TCCF and TCCD

FIRE DETECTION AND SUPPRESSION

FIRE DETECTION	All Areas
VESDA FIRE ALARM	Early Warning System
FIRE SUPPRESSION SYSTEM	FM200 Inert Gas

SLA

UPTIME	99.999 guaranteed uptime on power.
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EFFICIENCY

POWER USAGE EFFICIENCY	Design 1.4
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BUILDING MANAGEMENT SYSTEMS

FACILITIES MANAGEMENT	Experienced 24*7*365 facilities management team
ENVIRONMENTAL CONDITIONS	Continuously monitored in all technical areas
ENERGY METERING SYSTEM	Comprehensive energy metering system recording regular time series consumption data throughout the electrical infrastructure

CONTROL

BMS	Proprietary system with proactive warning systems and automatic environmental and power controls
CABLE MANAGEMENT	Full cable inventory and sophisticated cable management