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Mombasa One (MBA1) Data Center

Miritini, Mombasa

Main Site Features
Mombasa One (MBA1)

SITE INFORMATION AND LOCATION

NAME	Mombasa One (MBA1)
DATA CENTER LOCATION	Located off Mombasa-Nairobi Highway, opposite New Jomvu Total, Miritini in Mombasa, Kenya
COORDINATES	-4.008083, 39.59069
AIRPORTS/RAIL STATIONS	Moi International Airport (7.5km) Mombasa West Railway Station (SGR) (7.5km)
PUBLIC TRANSPORT NEARBY	Mombasa-Nairobi Highway

TOTAL SITE FEATURES

TOTAL AREA	2,400sqm
TECHNICAL SPACE	Data Center Floor: 528sqm Meet me rooms: 80sqm Technical Room: 215sqm
BUILDING FOOTPRINT	Length 452.13m x Width 257m
RAISED FLOOR LOADING	1,500kg/sqm
ACCESS TO BUILDING	24 hours a day, 7 days a week, 365 days a year
BUILDING	ISO Class 6 Steel frame with concrete slabs and 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	¼, ½ and full rack of 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 800 kVA DCC Continuous duty certified and tested
REDUNDANCY	N+1 Generators, 2N UPS, N+1 Cooling, 2N MMR & Fibre Entry
UPS	675kW Galaxy VX = 2N
LIGHTING	Energy Efficient LED Lighting
FLOOR TILES	600mm * 600mm
FLOOR GRILL AIRFLOW	1,810 to 3,650 m³/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+1 CRACs with redundant power supply and built-in ATS with Ultracapacitor.
IN RACK COOLING CAPABILITY	Available if required
HUMIDITY SET POINT	20% - 80%
STANDARDIZATION	ASHRAE 2015 Class A1

CONNECTIVITY

CARRIER NEUTRAL	Over 40 different carriers to choose from
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 Mombasa One
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 zones and dual security control provide defence in depth
SECURITY MONITORING	24 on-site CCTV cameras, monitored 24*7 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

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.

EFFICIENCY

POWER USAGE EFFICIENCY	Design 1.4

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 with redundancy
CABLE MANAGEMENT	Full cable inventory and sophisticated cable management

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