



# Mombasa Two (MBA2) Data Center

Nyali, Mombasa



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# Main Site Features

## Mombasa Two (MBA2)

### SITE INFORMATION AND LOCATION

NAME	MOMBASA TWO (MBA2)
DATA CENTER LOCATION	Located on Kongoni Road off Beach Road, Nyalí - Mombasa, Kenya
COORDINATES	-4.04207, 39.70012
AIRPORTS / RAIL STATIONS	Moi International Airport (14.2 km) Mombasa West Railway Station (SGR) (19.7km)
DISTANCE TO NEAREST BEACH MANHOLE	2 km along the road
MAJOR ROADS NEARBY	Links Road, Beach Road

### TOTAL SITE FEATURES

TOTAL AREA	4,460 sqm
TECHNICAL SPACE	Data Hall 1: 550 sqm Data Hall 2: 550 sqm Meet Me Rooms: 160 sqm Energy Centers: 452.5 sqm
BUILDING FOOTPRINT	Length 54.7m x Width 30.5m
FLOOR LOADING	1,500 kg/sqm
RAISED FLOOR HEIGHT	Data Halls: 1,000 mm Technical Rooms: 800 mm
ACCESS TO BUILDING	24 hours a day, 7 days a week, 365 days a year

### BUILDING

#### Floors

- Reinforced concrete floor slab with integral waterproofing admixtures
- Final finish – Epoxy
- Raised floor in technical rooms

#### Walls

- Waterproof plasterwork finished with marine grade low VOC silicone paint
- Reception area walls finished with local coral stone and sustainable timber cladding

#### Roofs

- Reinforced concrete roof slab with integral waterproofing admixtures
- Final finish -Concrete roof tiles on the secondary waterproofing layer

#### Doors

- Steel [Galvalume Type] Sheet as Per ASTM 792, based on Coating Designation AZM 150
- CR: Multiple entries, Double leaf-swing W 1,920\*H 2,870
- 60 mins fire rating

#### Elevators

- Redundancy: N+1
- Size of doors: 1,800 mm W x 2,500 mm D x 2,800 mm H
- Car platform: 1,800 mm W x 2,700mm D x 3,000 mm H
- Weight Capacity: 2,500kg

#### ISO Building Class 6

ADDITIONAL SPACE	Delivery, Storage and Staging Areas Client Meeting Rooms, Kitchenette
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### DATA CENTER FEATURES

TYPE OF SPACE AVAILABLE FOR COLOCATION	¼, ½ and full rack of up to 52U cabinets in plain open space, caged space
UTILITY FEATURES	3.9MVA fully rated, 11,000V with 2 diverse feeds and 1 dedicated line
DISTRIBUTION TO RACK	2N (A & B feed) with a single phase and/or 3-phases from 16A to 64A
GENERATORS	4 X 1,220kW Data Center Continuous duty, certified and tested
REDUNDANCY	N+1 Generators, 2N UPS, N+2 Cooling in Customer Room, N+1 Cooling in Technical Rooms, 2N MMR, 2N Fibre Entry
UPS	3 X 1,250kW Galaxy VX = 2N
LIGHTING	Energy efficient LED with KNX sensor lighting control
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+2 CRACS in the Customer room, N+1 CRACS in Technical rooms with redundant power supply and built-in ATS, and 50% of cooling on UPS
IN RACK COOLING CAPABILITY	Available if required
HUMIDITY SET POINT	20% – 80%
STANDARDIZATION	ASHRAE 2015 Class A1

### DC POWER PLANT

POWER	2 x 96kW
BATTERY	2 hours
CONFIGURATION	2N in 2 separate rooms

### CONNECTIVITY

CARRIER NEUTRAL	Yes, multiple carriers available
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
PEERING	Available

### 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	71 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 – Ongoing

### FIRE DETECTION AND SUPPRESSION

FIRE DETECTION	All Areas
VESDA FIRE ALARM	Early Warning System
FIRE SUPPRESSION SYSTEM	FM 200 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 with redundancy
CABLE MANAGEMENT	Full cable inventory and sophisticated cable management