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A DIGITAL REALTY COMPANY

# Maputo One (MPM1)

Maputo, Mozambique



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# Main Site Features

## Maputo One (MPM1)

SITE INFORMATION AND LOCATION	
NAME	Maputo One (MPM 1)
DATA CENTER LOCATION	140D, Avenida Vladimir Lenine Center, Maputo, Mozambique
COORDINATES	-25.95842, 32.58536
AIRPORT	Maputo International Airport (4.7 km)
RAIL STATION	Maputo Railway Station (3.4 km)
DISTANCE TO NEAREST BEACH MANHOLE	4.9 km along the road
MAJOR ROADS NEARBY	Av. Mao Tse Tung, Av. da Base N'Tchinga
TOTAL SITE FEATURES	
TOTAL AREA	5,000 sqm
TECHNICAL SPACE	Data Center Floor 1: 81.12 sqm Data Center Floor 2: 74.88 sqm Meet Me Room: 10.79 sqm Technical Room: 28.17 sqm
FLOOR LOADING	1,500kg/sqm
RAISED FLOOR HEIGHT	400mm
ACCESS TO BUILDING	24 hours a day, 7 days a week, 365 days a year
<b>BUILDING</b>	
<b>Prefabricated modules</b>	
Fire rating - 60 minutes inside to outside.	
<b>Floor</b>	
<ul style="list-style-type: none"><li>• Base frame bolted to 304 stainless steel sheets covered with shutter plywood and a 3CR12 steel plate.</li><li>• Secondary steel elements welded to the floor structure for fixing insulation, covers, walls, columns, etc.</li><li>• Underside: Steel sheet, fixed to the structure with mineral wool insulation as a vapor barrier.</li><li>• Top: Water-resistant plywood covered with Centris board and a steel sheet on top.</li></ul>	
<b>Walls</b>	
Polystyrene insulated panels with cromadeck sheeting attached to 304 stainless steel base frames via C- channel sealed with Sika and BTR rivets and attached to the floor and roof structure.	
<b>Roof</b>	
<ul style="list-style-type: none"><li>• Polystyrene cromadeck panels on steel frame 304 Stainless Steel capping's to keep roof and wall together covered with a secondary.</li><li>• Steel frame rolled galvanized steel with clip lock sheeting, structure support galvanized beams, and cross beams - custom made to accommodate the 2% roof slope.</li><li>• Secondary steel elements are fixed to the roof structure for insulation, covers, walls, columns etc.</li><li>• Roof is covered with a layer of weather and rain-resistant foil for additional water tightness, secondary tropical roof is added above that.</li></ul>	
<b>ISO Building Class 5</b>	
DATA CENTER FEATURES	
TYPE OF SPACE AVAILABLE FOR COLOCATION	¼, ½ and full rack cabinets of 42U in plain open space, caged space
UTILITY FEATURES	500kVA (400kW) fully rated, 11kV with ring feed
DISTRIBUTION TO RACK	2 separate power lines (A & B feed) with single-phase and/or 3 phase from 16A to 40A
GENERATORS	2 X 400 kVA (320kW) DCC in phase 1
REDUNDANCY	N+1 Generators, 2N UPS
UPS	200 kW each
LIGHTING	Energy Efficient LED Lighting
FLOOR TILES	600mm * 600mm
FLOOR GRILL AIRFLOW	1,810 to 3,650 m³/hr
FLOOR VOID	320mm

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 (Customer room), N+1 CRACS (Technical rooms)
IN RACK COOLING CAPABILITY	Available if required
HUMIDITY SET POINT	20% - 80%
STANDARDIZATION	ASHRAE 2015 Class A1
CONNECTIVITY	
CARRIER NEUTRAL	Yes, multiple carriers available
FIBRE ENTRY	2 diverse routes
DIVERSITY	Multiple fibre entries from multiple carriers will ensure redundant connections
LOCAL & 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	15 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
FIRE SUPPRESSION SYSTEM	NOVEC 1230 gas – Automated system with a manual backup
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