

Middle East & Africa Micro Data Center Market Forecast to 2030 - Regional Analysis -By Rack Type (Single Rack and Multi Rack), Organization Size (Large Enterprises and SMEs), and End User (IT & Telecom, BFSI, Retail, Healthcare, Manufacturing, and Others)

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Abstracts

The Middle East & Africa micro data center market was valued at US\$ 196.94 million in 2022 and is expected to reach US\$ 498.28 million by 2030; it is estimated to grow at a CAGR of 12.3% from 2022 to 2030.

Advent of IoT, Big Data, Machine Learning, and AI Fuel the Middle East & Africa Micro Data Center Market

The Internet of Things (IoT), big data, machine learning, and artificial intelligence (AI) are a few technologies that generate huge volumes of data, require low latency processing, and demand localized computing resources. IoT devices are widely used, connecting various physical objects and enabling data collection and communication. Micro data centers positioned at the edge of the network can provide local computing power, storage, and analytics capabilities, which reduce the latency and bandwidth requirements of transmitting data to a centralized data center. Micro data centers enable real-time decision-making and facilitate IoT deployments across the manufacturing, healthcare, transportation, and smart city industries. Further, processing and analyzing such massive datasets require significant computational power and storage capabilities. Micro data centers offer a scalable and distributed architecture, allowing organizations to process and analyze big data locally, closer to the data source. Micro data centers enhance data processing efficiency and enable real-time analytics by reducing the data transfer time and network congestion associated with transmitting large datasets to a central data center. Also, machine learning and AI

algorithms require substantial computational resources for training and inference tasks. Micro data centers provide the necessary processing power and storage capabilities to perform these resource-intensive tasks closer to the data source. Organizations can reduce the latency and response time associated with transmitting data to a centralized data center or the cloud by deploying micro data centers at the edge. This enables real-time decision-making, enhances AI-driven applications, and supports use cases such as autonomous vehicles, intelligent video analytics, predictive maintenance, and personalized recommendations. Hence, the adoption of micro data centers is growing, which is leading to a rise in the launch of advanced micro data centers. For instance, in March 2023, STULZ GMBH launched STULZ Micro DC-a single rack, all-in-one micro data center solution that combines power protection and distribution, cooling, monitoring, and management with fire protection and security. The aim of the launch was to maximize the potential of Industry 4.0 and the industrial Internet of Things (IIoT). Therefore, the advent of various technologies, such as the Internet of Things (IoT), machine learning, big data, and artificial intelligence (AI), is boosting the Middle East & Africa micro data center market.

Middle East & Africa Micro Data Center Market Overview

The micro data center market in the MEA is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of MEA. There is an increase in the adoption of cloud computing in the MEA. The UAE is the leading country in the micro data center market. The UAE's strong IT infrastructure and favorable government policies made it a destination for data center providers. The country is home to many enterprises and financial institutions. The UAE alone has 22 national banks. These factors drive the demand for micro data centers. Banks and financial institutions safeguard customer information in both cloud and on-premise data centers. Several market players are providing micro data centers in the UAE. For instance, EcoStruxure provides micro data centers that combine power, cooling, security, and monitoring in an enclosed rack system.

The MEA is facing a growing need for efficient and reliable data storage and processing solutions. Micro data centers can provide these solutions as they are typically more efficient and reliable than traditional ones. Several companies are launching micro data centers in the MEA to meet these demands. For example, in May 2021, Vertiv launched a pre-assembled micro data center system in the MEA. It is designed for small IT sites or edges. The closed single rack system provided by Vertiv is either 42 or 48U and has up to 3.5 kW of cooling.

Middle East & Africa Micro Data Center Market Revenue and Forecast to 2030 (US\$

Million)

Middle East & Africa Micro Data Center Market Segmentation

Based on rack type, the Middle East & Africa micro data center market is bifurcated into single rack and multi rack. The single rack segment held a larger share in 2022.

Based on organization size, the Middle East & Africa micro data center market is bifurcated into large enterprises and SMEs. The large enterprises segment held a larger share in 2022.

Based on end user, the Middle East & Africa micro data center market is segmented into BFSI, retail, IT and telecom, manufacturing, healthcare, and others. The IT and telecom segment held the largest share in 2022.

Based on country, the Middle East & Africa micro data center market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa micro data center market in 2022.

Hitachi Ltd, Rittal GmbH & Co KG, Legrand SA, Schneider Electric SE, Vertiv Group Corp, Eaton Corp Plc, Hewlett Packard Enterprise Development LP, Delta Electronics Inc, and Huawei Technologies Co Ltd are some of the leading companies operating in the Middle East & Africa micro data center market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. MIDDLE EAST & AFRICA MICRO DATA CENTER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 Component Providers
 - 4.3.2 Manufacturers
 - 4.3.3 Distributors or Suppliers
 - 4.3.4 End Users
 - 4.3.5 List of Vendors in Value Chain:

5. MIDDLE EAST & AFRICA MICRO DATA CENTER MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Middle East & Africa Micro Data Center Market - Key Industry Dynamics
- 5.2 Market Drivers
 - 5.2.1 Advent of IoT, Big Data, Machine Learning, and AI
 - 5.2.2 Increasing Proliferation of Cloud-based Services
- 5.3 Market Restraints
 - 5.3.1 Lack of Awareness about Benefits of Micro Data Centers
- 5.4 Market Opportunities

- 5.4.1 Increasing Deployment of 5G Services
- 5.4.2 Increasing Focus on Environmentally Friendly Data Centers
- 5.5 Future Trends
 - 5.5.1 Edge Micro Data Centers
- 5.6 Impact of Drivers and Restraints:

6. MICRO DATA CENTER MARKET -MIDDLE EAST & AFRICA MARKET ANALYSIS

- 6.1 Middle East & Africa Micro Data Center Market Revenue (US\$ Million), 2022 - 2030
- 6.2 Middle East & Africa Micro Data Center Market Forecast and Analysis

7. MIDDLE EAST & AFRICA MICRO DATA CENTER MARKET ANALYSIS - RACK TYPE

- 7.1 Single Rack
 - 7.1.1 Overview
 - 7.1.2 Single Rack Market Revenue, and Forecast to 2030 (US\$ Million)
- 7.2 Multi Rack
 - 7.2.1 Overview
 - 7.2.2 Multi Rack Market Revenue, and Forecast to 2030 (US\$ Million)

8. MIDDLE EAST & AFRICA MICRO DATA CENTER MARKET ANALYSIS - ORGANIZATION SIZE

- 8.1 Large Enterprises
 - 8.1.1 Overview
 - 8.1.2 Large Enterprises Market Revenue, and Forecast to 2030 (US\$ Million)
- 8.2 SMEs
 - 8.2.1 Overview
 - 8.2.2 SMEs Market Revenue, and Forecast to 2030 (US\$ Million)

9. MIDDLE EAST & AFRICA MICRO DATA CENTER MARKET ANALYSIS - END USER

- 9.1 IT & Telecom
 - 9.1.1 Overview
 - 9.1.2 IT & Telecom Market Revenue, and Forecast to 2030 (US\$ Million)
- 9.2 BFSI
 - 9.2.1 Overview

9.2.2 BFSI Market Revenue, and Forecast to 2030 (US\$ Million)

9.3 Retail

9.3.1 Overview

9.3.2 Retail Market Revenue, and Forecast to 2030 (US\$ Million)

9.4 Healthcare

9.4.1 Overview

9.4.2 Healthcare Market Revenue, and Forecast to 2030 (US\$ Million)

9.5 Manufacturing

9.5.1 Overview

9.5.2 Manufacturing Market Revenue, and Forecast to 2030 (US\$ Million)

9.6 Others

9.6.1 Overview

9.6.2 Others Market Revenue, and Forecast to 2030 (US\$ Million)

10. MICRO DATA CENTER MARKET -COUNTRY ANALYSIS

10.1 Middle East & Africa

10.1.1 Middle East & Africa Micro Data Center Market Overview

10.1.2 Middle East & Africa Micro Data Center Market Revenue and Forecasts and Analysis - by Key Country

10.1.2.1 Middle East & Africa Micro Data Center Market Revenue and Forecasts and Analysis - by Country

10.1.2.2 South Africa Micro Data Center Market Revenue and Forecasts to 2030 (US\$ Mn)

10.1.2.2.1 South Africa Micro Data Center Market Breakdown by Rack Type

10.1.2.2.2 South Africa Micro Data Center Market Breakdown by Organization Size

10.1.2.2.3 South Africa Micro Data Center Market Breakdown by End User

10.1.2.3 Saudi Arabia Micro Data Center Market Revenue and Forecasts to 2030 (US\$ Mn)

10.1.2.3.1 Saudi Arabia Micro Data Center Market Breakdown by Rack Type

10.1.2.3.2 Saudi Arabia Micro Data Center Market Breakdown by Organization Size

10.1.2.3.3 Saudi Arabia Micro Data Center Market Breakdown by End User

10.1.2.4 UAE Micro Data Center Market Revenue and Forecasts to 2030 (US\$ Mn)

10.1.2.4.1 UAE Micro Data Center Market Breakdown by Rack Type

10.1.2.4.2 UAE Micro Data Center Market Breakdown by Organization Size

10.1.2.4.3 UAE Micro Data Center Market Breakdown by End User

10.1.2.5 Rest of Middle East & Africa Micro Data Center Market Revenue and Forecasts to 2030 (US\$ Mn)

10.1.2.5.1 Rest of Middle East & Africa Micro Data Center Market Breakdown by

Rack Type

10.1.2.5.2 Rest of Middle East & Africa Micro Data Center Market Breakdown by Organization Size

10.1.2.5.3 Rest of Middle East & Africa Micro Data Center Market Breakdown by End User

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Merger and Acquisitions

11.3 Market Initiatives

11.4 New Product Developments

12. COMPANY PROFILES

12.1 Hitachi Ltd

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Rittal GmbH & Co KG

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Legrand SA

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 Schneider Electric SE

12.4.1 Key Facts

12.4.2 Business Description

- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments
- 12.5 Vertiv Group Corp
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Eaton Corp Plc
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Hewlett Packard Enterprise Development LP
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Delta Electronics Inc
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 Huawei Technologies Co Ltd
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 Word Index

List Of Tables

LIST OF TABLES

Table 1. Middle East & Africa Micro Data Center Market Segmentation

Table 2. Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Million)

Table 3. Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Million) - Rack Type

Table 4. Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Million) - Organization Size

Table 5. Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Million) - End User

Table 6. Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Country

Table 7. South Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Rack Type

Table 8. South Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Organization Size

Table 9. South Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by End User

Table 10. Saudi Arabia Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Rack Type

Table 11. Saudi Arabia Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Organization Size

Table 12. Saudi Arabia Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by End User

Table 13. UAE Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Rack Type

Table 14. UAE Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Organization Size

Table 15. UAE Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by End User

Table 16. Rest of Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Rack Type

Table 17. Rest of Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by Organization Size

Table 18. Rest of Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn) - by End User

Table 19. @LIST OF Abbreviation

List Of Figures

LIST OF FIGURES

Figure 1. Middle East & Africa Micro Data Center Market Segmentation, By Country

Figure 2. PEST Analysis

Figure 3. Ecosystem: Middle East & Africa Micro Data Center Market

Figure 4. Impact Analysis of Drivers and Restraints

Figure 5. Middle East & Africa Micro Data Center Market Revenue (US\$ Million), 2022 - 2030

Figure 6. Middle East & Africa Micro Data Center Market Share (%) - Rack Type, 2022 and 2030

Figure 7. Single Rack Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 8. Multi Rack Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 9. Middle East & Africa Micro Data Center Market Share (%) - Organization Size, 2022 and 2030

Figure 10. Large Enterprises Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 11. SMEs Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 12. Middle East & Africa Micro Data Center Market Share (%) - End User, 2022 and 2030

Figure 13. IT & Telecom Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 14. BFSI Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 15. Retail Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 16. Healthcare Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 17. Manufacturing Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 18. Others Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 19. Middle East & Africa Micro Data Center Market, by Key Country, (2022) (US\$ Mn)

Figure 20. Micro Data Center Market Breakdown by Key Countries, 2022 and 2030 (%)

Figure 21. South Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn)

Figure 22. Saudi Arabia Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn)

Figure 23. UAE Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn)

Figure 24. Rest of Middle East & Africa Micro Data Center Market Revenue and Forecasts To 2030 (US\$ Mn)

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