

Middle East & Africa 5G Base Station Market Forecast to 2030 - Regional Analysis - by Component (Hardware and Service), Frequency Band (Less Than 2.5 GHz, 2.5 - 8 GHz, 8 - 25 GHz, and More Than 25 GHz), Cell Type [Macrocell and Small Cell (Microcell, Picocell, and Femtocell)], and End User (Industrial, Commercial, and Residential)

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Abstracts

The Middle East & Africa 5G base station market was valued at US\$ 1,468.31 million in 2022 and is expected to reach US\$ 4,592.84 million by 2030; it is estimated to register a CAGR of 15.3% from 2022 to 2030.

Rise in Usage of Edge Computing Bolsters Middle East & Africa 5G Base Station Market

Edge computing and 5G are two linked technologies. They both enable huge amounts of data to be processed in real time and used to improve the performance of applications substantially. By bringing compute experiences into the network closer to the end user, edge computing reduces latency. The growing penetration of smart devices, the need for faster processing, and the increased speed pressure on networks are a few factors that contribute to the adoption of edge computing. Edge computing, combined with 5G, creates opportunities to enhance digital experiences, improve performance, support data security, and enable continuous operations in every industry. Edge computing brings computation and data storage closer to the data source. By leveraging the computational capacity of edge devices, networks, and gateways, users can continue to take advantage of the principles of dynamic allocation of resources and continuous delivery that are inherent to cloud computing. With edge computing,

businesses have the potential to virtualize the cloud beyond the four walls of the data center. Workloads created in the cloud, including some of the more modern forms of AI and analytics, can now be migrated out toward the edge. Where appropriate, data generated at the edge can be optimized, cleansed, and brought back to the cloud. Edge computing enables improved data control and lower costs by minimizing data transportation to central hubs and reducing weaknesses and continuous operations by enabling systems that run autonomously, even when disconnected, to reduce disruption and lower costs. Edge computing is widely used in 5G networks. Hence, the rising usage of edge computing is anticipated to fuel the 5G base station market growth in the coming years.

Middle East & Africa 5G Base Station Market Overview

The development of 5G base stations in the Middle East & Africa (MEA) is gradually increasing. Many countries in the Middle East, such as the UAE and Saudi Arabia, are experiencing rapid economic growth and urbanization. This creates a demand for advanced telecommunications infrastructure to support businesses and city development. Also, several cities in the MEA, including Dubai and Doha, have ambitious smart city projects. Similarly, a few of the other smart cities in development at the moment include the Zayed Smart City Project in Abu Dhabi and the UAE's Desert Rose City. In addition, in September 2023, Iveda announced a new partnership with The Arab Organization for Industrialization (AOI) to support and scale smart city developments in Egypt. These projects rely on 5G technology to enable various applications, such as smart transportation, energy management, and public services. Various industries, including healthcare, agriculture, and manufacturing, are undergoing digital transformation. 5G plays a crucial role in enabling IoT and automation in these sectors, which boosts the deployment of 5G base stations across the region. For instance, IoT is used for precision agriculture, and it is gaining traction in parts of Africa.

Middle East & Africa 5G Base Station Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa 5G Base Station Market Segmentation

The Middle East & Africa 5G base station market is categorized into component, frequency band, cell type, end user, and country.

Based on component, the Middle East & Africa 5G base station market is bifurcated into hardware and service. The hardware segment held a larger market share in 2022.

In terms of frequency band, the Middle East & Africa 5G base station market is segmented into less than 2.5 GHz, 2.5 - 8 GHz, 8 - 25 GHz, and more than 25 GHz. The less than 2.5 GHz segment held the largest market share in 2022.

By cell type, the Middle East & Africa 5G base station market is bifurcated into macrocell and small cell. The small cell segment held a larger market share in 2022. Furthermore, the small cell segment is subsegmented into microcell, picocell, and femtocell.

Based on end user, the Middle East & Africa 5G base station market is segmented into industrial, commercial, and residential. The commercial segment held the largest market share in 2022.

By country, the Middle East & Africa 5G base station market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of Middle East & Africa. Saudi Arabia dominated the Middle East & Africa 5G base station market share in 2022.

Airspan Networks Holdings Inc, Huawei Technologies Co Ltd, NEC Corp, Nokia Corp, Samsung Electronics Co Ltd, Telefonaktiebolaget LM Ericsson, and ZTE Corp are among the leading companies operating in the Middle East & Africa 5G base station 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 5G BASE STATION MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 List of Vendors in the Value Chain:

5. MIDDLE EAST & AFRICA 5G BASE STATION MARKET - KEY MARKET DYNAMICS

- 5.1 Middle East & Africa 5G Base Station Market - Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Increased Demand for Low Latency and High-speed Data
 - 5.2.2 Surge in IoT and Industry 4.0 Adoption
- 5.3 Market Restraints
 - 5.3.1 High Cost of Installing 5G Infrastructure
 - 5.3.2 Government Regulations Related to Network Radiation
- 5.4 Market Opportunities
 - 5.4.1 Development of Smart Infrastructure and Smart City
 - 5.4.2 Increasing 5G Subscriptions in Developing Countries
- 5.5 Future Trends
 - 5.5.1 Rise in Usage of Edge Computing

5.6 Impact of Drivers and Restraints:

6. 5G BASE STATION MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS

6.1 Middle East & Africa 5G Base Station Market Revenue (US\$ Million), 2020 - 2030

6.2 Middle East & Africa 5G Base Station Market Forecast and Analysis

7. MIDDLE EAST & AFRICA 5G BASE STATION MARKET ANALYSIS - COMPONENT

7.1 Hardware

7.1.1 Overview

7.1.2 Hardware Market, Revenue and Forecast to 2030 (US\$ Million)

7.2 Service

7.2.1 Overview

7.2.2 Service Market, Revenue and Forecast to 2030 (US\$ Million)

8. MIDDLE EAST & AFRICA 5G BASE STATION MARKET ANALYSIS - FREQUENCY BAND

8.1 Less Than 2.5 GHz

8.1.1 Overview

8.1.2 Less Than 2.5 GHz Market, Revenue and Forecast to 2030 (US\$ Million)

8.2 2.5 - 8 GHz

8.2.1 Overview

8.2.2 2.5 - 8 GHz Market, Revenue and Forecast to 2030 (US\$ Million)

8.3 8 - 25 GHz

8.3.1 Overview

8.3.2 8 - 25 GHz Market, Revenue and Forecast to 2030 (US\$ Million)

8.4 More Than 25 GHz

8.4.1 Overview

8.4.2 More Than 25 GHz Market, Revenue and Forecast to 2030 (US\$ Million)

9. MIDDLE EAST & AFRICA 5G BASE STATION MARKET ANALYSIS - CELL TYPE

9.1 Macrocell

9.1.1 Overview

9.1.2 Macrocell Market, Revenue and Forecast to 2030 (US\$ Million)

9.2 Small Cell

9.2.1 Overview

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

9.2.3 Microcell

9.2.3.1 Overview

9.2.3.2 Microcell Market, Revenue and Forecast to 2030 (US\$ Million)

9.2.4 Picocell

9.2.4.1 Overview

9.2.4.2 Picocell Market, Revenue and Forecast to 2030 (US\$ Million)

9.2.5 Femtocell

9.2.5.1 Overview

9.2.5.2 Femtocell Market, Revenue and Forecast to 2030 (US\$ Million)

10. MIDDLE EAST & AFRICA 5G BASE STATION MARKET ANALYSIS - END USER

10.1 Industrial

10.1.1 Overview

10.1.2 Industrial Market, Revenue and Forecast to 2030 (US\$ Million)

10.2 Commercial

10.2.1 Overview

10.2.2 Commercial Market, Revenue and Forecast to 2030 (US\$ Million)

10.3 Residential

10.3.1 Overview

10.3.2 Residential Market, Revenue and Forecast to 2030 (US\$ Million)

11. MIDDLE EAST & AFRICA 5G BASE STATION MARKET - COUNTRY ANALYSIS

11.1 Middle East & Africa

11.1.1 Middle East & Africa 5G Base Station Market Revenue and Forecasts and Analysis - By Country

11.1.1.1 Middle East & Africa 5G Base Station Market Revenue and Forecasts and Analysis - By Country

11.1.1.2 South Africa 5G Base Station Market Revenue and Forecasts to 2030 (US\$ Mn)

11.1.1.2.1 South Africa 5G Base Station Market Breakdown, by Component

11.1.1.2.2 South Africa 5G Base Station Market Breakdown, by Frequency Band

11.1.1.2.3 South Africa 5G Base Station Market Breakdown, by Cell Type

11.1.1.2.3.1 South Africa 5G Base Station Market Breakdown, by Small Cell

11.1.1.2.4 South Africa 5G Base Station Market Breakdown, by End User

11.1.1.3 Saudi Arabia 5G Base Station Market Revenue and Forecasts to 2030 (US\$

Mn)

- 11.1.1.3.1 Saudi Arabia 5G Base Station Market Breakdown, by Component
- 11.1.1.3.2 Saudi Arabia 5G Base Station Market Breakdown, by Frequency Band
- 11.1.1.3.3 Saudi Arabia 5G Base Station Market Breakdown, by Cell Type
 - 11.1.1.3.3.1 Saudi Arabia 5G Base Station Market Breakdown, by Small Cell
- 11.1.1.3.4 Saudi Arabia 5G Base Station Market Breakdown, by End User
- 11.1.1.4 UAE 5G Base Station Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 11.1.1.4.1 UAE 5G Base Station Market Breakdown, by Component
 - 11.1.1.4.2 UAE 5G Base Station Market Breakdown, by Frequency Band
 - 11.1.1.4.3 UAE 5G Base Station Market Breakdown, by Cell Type
 - 11.1.1.4.3.1 UAE 5G Base Station Market Breakdown, by Small Cell
 - 11.1.1.4.4 UAE 5G Base Station Market Breakdown, by End User
- 11.1.1.5 Rest of MEA 5G Base Station Market Revenue and Forecasts to 2030 (US\$

Mn)

- 11.1.1.5.1 Rest of MEA 5G Base Station Market Breakdown, by Component
- 11.1.1.5.2 Rest of MEA 5G Base Station Market Breakdown, by Frequency Band
- 11.1.1.5.3 Rest of MEA 5G Base Station Market Breakdown, by Cell Type
 - 11.1.1.5.3.1 Rest of MEA 5G Base Station Market Breakdown, by Small Cell
- 11.1.1.5.4 Rest of MEA 5G Base Station Market Breakdown, by End User

12. INDUSTRY LANDSCAPE

- 12.1 Overview
- 12.2 Market Initiative
- 12.3 Product Development
- 12.4 Mergers & Acquisitions

13. COMPANY PROFILES

- 13.1 ZTE Corp
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments
- 13.2 Huawei Technologies Co Ltd
 - 13.2.1 Key Facts
 - 13.2.2 Business Description

- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 NEC Corp
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Samsung Electronics Co Ltd
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Telefonaktiebolaget LM Ericsson
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Nokia Corp
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Airspan Networks Holdings Inc
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments

14. APPENDIX

14.1 Word Index

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Product name: Middle East & Africa 5G Base Station Market Forecast to 2030 - Regional Analysis - by Component (Hardware and Service), Frequency Band (Less Than 2.5 GHz, 2.5 - 8 GHz, 8 - 25 GHz, and More Than 25 GHz), Cell Type [Macrocell and Small Cell (Microcell, Picocell, and Femtocell)], and End User (Industrial, Commercial, and Residential)

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