

Global Edge UPF Systems Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Edge UPF Systems market size is predicted to grow from US\$ 470 million in 2025 to US\$ 1023 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 2032.

Edge UPF Systems refer to commercial user-plane function systems deployed close to the service site, such as operator edge data centers, MEC nodes, enterprise campuses, industrial private networks, ports, mines, transport hubs, energy facilities, smart factories, and large venues. Their primary role is to process user-plane traffic locally by supporting packet forwarding, routing, QoS enforcement, traffic classification, service breakout, local data network access, low-latency service anchoring, and edge-based traffic steering. The scope of this topic focuses on commercially deliverable Edge UPF software, cloud-native UPF instances, virtualized UPF, containerized UPF, white-box UPF, edge UPF appliances, local packet gateway systems, and the UPF portion embedded in lightweight private 5G core systems, together with directly related deployment, orchestration, lifecycle management, and operations modules. Core technologies include CUPS-based separation of control and user planes, DPDK and VPP high-speed forwarding, SR-IOV, SmartNIC or DPU offload, N4 interface decoupling, UL Classifier, local PSA UPF, network slicing, container orchestration, edge high availability, local breakout, and distributed traffic steering. Key performance parameters include throughput, packet forwarding capacity, concurrent sessions, end-to-end latency, N3/N4/N6 interface compatibility, 3GPP compliance, cloud-native deployability, hardware resource efficiency, failover capability, and operational simplicity at distributed edge nodes. The product is mainly used in 5G SA networks, MEC-based low-latency services, enterprise private 5G, industrial internet, smart ports, smart mining, campus networks, FWA edge acceleration, immersive media, and mission-critical local data processing. 3GPP has already defined edge computing mechanisms

such as local PSA UPF and UL Classifier-based traffic diversion, providing the architectural foundation for this market.

From an industry-definition perspective, Edge UPF Systems should be understood as distributed user-plane network functions within the 5G core, rather than as generic edge servers or complete 5G core networks. Their value is created by moving packet forwarding, local breakout, QoS enforcement, and traffic steering closer to users, applications, and enterprise data sources. This makes the product highly relevant to 5G SA networks, MEC nodes, private 5G deployments, industrial internet, smart ports, mining automation, FWA acceleration, immersive media, and other latency-sensitive or data-localization scenarios. The market remains in a growth phase rather than a fully mature deployment cycle. The estimated global market size is USD 480 million in 2025 and USD 550 million in 2026, with a 2026-2032 CAGR of about 10.90%. This growth profile is stronger than traditional telecom core network replacement demand, but more conservative than broad MEC or private 5G platform estimates because the topic only captures the value attributable to edge-deployed UPF systems. The architectural basis is already clear: 3GPP defines mechanisms such as local PSA UPF and UL Classifier-based traffic diversion for edge computing, while public 5G SA investment continues to expand globally. In August 2025, GSA reported 173 operators in 70 countries investing in public 5G SA networks, with 77 operators in 43 countries having launched or soft-launched services.

From a supply-side perspective, the industry is structured around several clearly separated layers. Global telecom equipment vendors dominate large operator-grade deployments because they have mature 5G core portfolios, carrier relationships, integration capabilities, and long-term network support systems. Cloud-native core vendors and private 5G software providers form the second layer, serving enterprise campuses, industrial sites, local networks, and smaller operators that need lightweight, modular, or software-defined UPF deployments. Regional suppliers, open-core commercialization vendors, and private-network specialists form the long tail. This distinction is important because the broad ecosystem also includes server vendors, SmartNIC or DPU vendors, CPU suppliers, cloud platforms, and system integrators; they may enable or accelerate Edge UPF deployments, but they should not be treated as Edge UPF system manufacturers unless they provide the UPF network function or the commercial UPF system itself. Recent industry dynamics also show consolidation and productization in private 5G core assets, while new product directions such as far-edge appliances, white-box UPF, OpenUPF-N4 decoupling, containerized UPF, DPDK/VPP forwarding, and SmartNIC offload are making the product lighter, more modular, and more suitable for distributed edge environments.

From the demand side, Edge UPF growth should not be modeled simply as a function of global 5G subscriptions. The more relevant drivers are 5G SA penetration, MEC node rollout, private 5G adoption, local data processing requirements, network slicing, and operators' willingness to invest in distributed user-plane infrastructure. Public network demand is mainly driven by local breakout, FWA traffic optimization, low-latency video, AR/VR, vehicle-to-everything services, enterprise campus networks, and regional data routing. Enterprise demand comes from manufacturing, mining, ports, utilities, transportation, public safety, and large venues where data locality, deterministic performance, and operational control are more important than nationwide mobility. Policy support for industrial digitalization, private 5G, critical infrastructure modernization, and data localization will continue to support adoption. At the same time, cloud-native reuse, open-source core commercialization, white-box hardware, and falling edge server costs will reduce average system prices over time. The competitive basis is therefore shifting from raw throughput alone toward end-to-end latency, resilience, observability, lifecycle management, N4 decoupling, multi-cloud deployment, slicing compatibility, and integration with MEC application platforms. Overall, Edge UPF Systems represent a real but disciplined growth market within 5G SA and 5G-Advanced evolution, best treated as a mid-sized, technically demanding, project-driven telecom software and edge-network equipment segment rather than as a broad MEC infrastructure market.

LPI (LP Information)'s newest research report, the "Edge UPF Systems Industry Forecast" looks at past sales and reviews total world Edge UPF Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Edge UPF Systems sales for 2026 through 2032. With Edge UPF Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Edge UPF Systems industry.

This Insight Report provides a comprehensive analysis of the global Edge UPF Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Edge UPF Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Edge UPF Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Edge UPF Systems and breaks down the forecast by

Throughput Capacity, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Edge UPF Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Edge UPF Systems market by product type, application, key players and key regions and countries.

Segmentation by Throughput Capacity:

Low-capacity UPF (Below 10 Gbps)

Mid-capacity UPF (10?100 Gbps)

High-capacity UPF (100?500 Gbps)

Ultra-high-capacity UPF (Above 500 Gbps)

Others

Segmentation by Deployment Location:

Regional Edge UPF

Metro Edge UPF

On-premise Enterprise Edge UPF

Far-edge or Site-level UPF

Others

Segmentation by Application:

Telecom Operators

Industrial Manufacturing

Transportation and Logistics

Energy and Utilities

Public Safety and Government

Media, Venue and Enterprise Campus

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Huawei Technologies Co., Ltd.

Ericsson

Nokia Corporation

ZTE Corporation

Cisco Systems, Inc.

Samsung Electronics Co., Ltd.

NEC Corporation

Mavenir

Axyom.Core

IPLOOK Technologies

Hewlett Packard Enterprise Company

H3C Technologies Co., Ltd.

AsialInfo Technologies Limited

Amantya Technologies

A5G Networks, Inc.

6WIND

Polaris Networks

Druid Software

Cumucore

Amarisoft

Baicells Technologies Co., Ltd.

Kontron AG

Hytera Communications Corporation Limited

Ruijie Networks Co., Ltd.

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Edge UPF Systems Market Size (2021-2032)
 - 2.1.2 Edge UPF Systems Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Edge UPF Systems by Country/Region (2021, 2025 & 2032)
- 2.2 Edge UPF Systems Segment by Throughput Capacity
 - 2.2.1 Low-capacity UPF (Below 10 Gbps)
 - 2.2.2 Mid-capacity UPF (10?100 Gbps)
 - 2.2.3 High-capacity UPF (100?500 Gbps)
 - 2.2.4 Ultra-high-capacity UPF (Above 500 Gbps)
 - 2.2.5 Others
 - 2.2.6 Edge UPF Systems Market Size by Throughput Capacity
 - 2.2.6.1 Edge UPF Systems Market Size CAGR by Throughput Capacity (2021 VS 2025 VS 2032)
 - 2.2.6.2 Global Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)
- 2.3 Edge UPF Systems Segment by Deployment Location
 - 2.3.1 Regional Edge UPF
 - 2.3.2 Metro Edge UPF
 - 2.3.3 On-premise Enterprise Edge UPF
 - 2.3.4 Far-edge or Site-level UPF
 - 2.3.5 Others
 - 2.3.6 Edge UPF Systems Market Size by Deployment Location
 - 2.3.6.1 Edge UPF Systems Market Size CAGR by Deployment Location (2021 VS

2025 VS 2032)

2.3.6.2 Global Edge UPF Systems Market Size Market Share by Deployment Location (2021-2026)

2.4 Edge UPF Systems Segment by Application

2.4.1 Telecom Operators

2.4.2 Industrial Manufacturing

2.4.3 Transportation and Logistics

2.4.4 Energy and Utilities

2.4.5 Public Safety and Government

2.4.6 Media, Venue and Enterprise Campus

2.4.7 Others

2.4.8 Edge UPF Systems Market Size by Application

2.4.8.1 Edge UPF Systems Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.4.8.2 Global Edge UPF Systems Market Size Market Share by Application (2021-2026)

3 EDGE UPF SYSTEMS MARKET SIZE BY PLAYER

3.1 Edge UPF Systems Market Size Market Share by Player

3.1.1 Global Edge UPF Systems Revenue by Player (2021-2026)

3.1.2 Global Edge UPF Systems Revenue Market Share by Player (2021-2026)

3.2 Global Edge UPF Systems Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 EDGE UPF SYSTEMS BY REGION

4.1 Edge UPF Systems Market Size by Region (2021-2026)

4.2 Global Edge UPF Systems Annual Revenue by Country/Region (2021-2026)

4.3 Americas Edge UPF Systems Market Size Growth (2021-2026)

4.4 APAC Edge UPF Systems Market Size Growth (2021-2026)

4.5 Europe Edge UPF Systems Market Size Growth (2021-2026)

4.6 Middle East & Africa Edge UPF Systems Market Size Growth (2021-2026)

5 AMERICAS

- 5.1 Americas Edge UPF Systems Market Size by Country (2021-2026)
- 5.2 Americas Edge UPF Systems Market Size by Throughput Capacity (2021-2026)
- 5.3 Americas Edge UPF Systems Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Edge UPF Systems Market Size by Region (2021-2026)
- 6.2 APAC Edge UPF Systems Market Size by Throughput Capacity (2021-2026)
- 6.3 APAC Edge UPF Systems Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Edge UPF Systems Market Size by Country (2021-2026)
- 7.2 Europe Edge UPF Systems Market Size by Throughput Capacity (2021-2026)
- 7.3 Europe Edge UPF Systems Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Edge UPF Systems by Region (2021-2026)
- 8.2 Middle East & Africa Edge UPF Systems Market Size by Throughput Capacity (2021-2026)
- 8.3 Middle East & Africa Edge UPF Systems Market Size by Application (2021-2026)
- 8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL EDGE UPF SYSTEMS MARKET FORECAST

10.1 Global Edge UPF Systems Forecast by Region (2027-2032)

10.1.1 Global Edge UPF Systems Forecast by Region (2027-2032)

10.1.2 Americas Edge UPF Systems Forecast

10.1.3 APAC Edge UPF Systems Forecast

10.1.4 Europe Edge UPF Systems Forecast

10.1.5 Middle East & Africa Edge UPF Systems Forecast

10.2 Americas Edge UPF Systems Forecast by Country (2027-2032)

10.2.1 United States Market Edge UPF Systems Forecast

10.2.2 Canada Market Edge UPF Systems Forecast

10.2.3 Mexico Market Edge UPF Systems Forecast

10.2.4 Brazil Market Edge UPF Systems Forecast

10.3 APAC Edge UPF Systems Forecast by Region (2027-2032)

10.3.1 China Edge UPF Systems Market Forecast

10.3.2 Japan Market Edge UPF Systems Forecast

10.3.3 Korea Market Edge UPF Systems Forecast

10.3.4 Southeast Asia Market Edge UPF Systems Forecast

10.3.5 India Market Edge UPF Systems Forecast

10.3.6 Australia Market Edge UPF Systems Forecast

10.4 Europe Edge UPF Systems Forecast by Country (2027-2032)

10.4.1 Germany Market Edge UPF Systems Forecast

10.4.2 France Market Edge UPF Systems Forecast

10.4.3 UK Market Edge UPF Systems Forecast

10.4.4 Italy Market Edge UPF Systems Forecast

10.4.5 Russia Market Edge UPF Systems Forecast

10.5 Middle East & Africa Edge UPF Systems Forecast by Region (2027-2032)

10.5.1 Egypt Market Edge UPF Systems Forecast

- 10.5.2 South Africa Market Edge UPF Systems Forecast
- 10.5.3 Israel Market Edge UPF Systems Forecast
- 10.5.4 Turkey Market Edge UPF Systems Forecast
- 10.6 Global Edge UPF Systems Forecast by Throughput Capacity (2027-2032)
- 10.7 Global Edge UPF Systems Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Edge UPF Systems Forecast

11 KEY PLAYERS ANALYSIS

11.1 Huawei Technologies Co., Ltd.

- 11.1.1 Huawei Technologies Co., Ltd. Company Information
- 11.1.2 Huawei Technologies Co., Ltd. Edge UPF Systems Product Offered
- 11.1.3 Huawei Technologies Co., Ltd. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Huawei Technologies Co., Ltd. Main Business Overview
- 11.1.5 Huawei Technologies Co., Ltd. Latest Developments

11.2 Ericsson

- 11.2.1 Ericsson Company Information
- 11.2.2 Ericsson Edge UPF Systems Product Offered
- 11.2.3 Ericsson Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Ericsson Main Business Overview
- 11.2.5 Ericsson Latest Developments

11.3 Nokia Corporation

- 11.3.1 Nokia Corporation Company Information
- 11.3.2 Nokia Corporation Edge UPF Systems Product Offered
- 11.3.3 Nokia Corporation Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Nokia Corporation Main Business Overview
- 11.3.5 Nokia Corporation Latest Developments

11.4 ZTE Corporation

- 11.4.1 ZTE Corporation Company Information
- 11.4.2 ZTE Corporation Edge UPF Systems Product Offered
- 11.4.3 ZTE Corporation Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 ZTE Corporation Main Business Overview
- 11.4.5 ZTE Corporation Latest Developments

11.5 Cisco Systems, Inc.

- 11.5.1 Cisco Systems, Inc. Company Information

- 11.5.2 Cisco Systems, Inc. Edge UPF Systems Product Offered
- 11.5.3 Cisco Systems, Inc. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.5.4 Cisco Systems, Inc. Main Business Overview
- 11.5.5 Cisco Systems, Inc. Latest Developments
- 11.6 Samsung Electronics Co., Ltd.
- 11.6.1 Samsung Electronics Co., Ltd. Company Information
- 11.6.2 Samsung Electronics Co., Ltd. Edge UPF Systems Product Offered
- 11.6.3 Samsung Electronics Co., Ltd. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.6.4 Samsung Electronics Co., Ltd. Main Business Overview
- 11.6.5 Samsung Electronics Co., Ltd. Latest Developments
- 11.7 NEC Corporation
- 11.7.1 NEC Corporation Company Information
- 11.7.2 NEC Corporation Edge UPF Systems Product Offered
- 11.7.3 NEC Corporation Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.7.4 NEC Corporation Main Business Overview
- 11.7.5 NEC Corporation Latest Developments
- 11.8 Mavenir
- 11.8.1 Mavenir Company Information
- 11.8.2 Mavenir Edge UPF Systems Product Offered
- 11.8.3 Mavenir Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.8.4 Mavenir Main Business Overview
- 11.8.5 Mavenir Latest Developments
- 11.9 Axyom.Core
- 11.9.1 Axyom.Core Company Information
- 11.9.2 Axyom.Core Edge UPF Systems Product Offered
- 11.9.3 Axyom.Core Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.9.4 Axyom.Core Main Business Overview
- 11.9.5 Axyom.Core Latest Developments
- 11.10 IPLOOK Technologies
- 11.10.1 IPLOOK Technologies Company Information
- 11.10.2 IPLOOK Technologies Edge UPF Systems Product Offered
- 11.10.3 IPLOOK Technologies Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
- 11.10.4 IPLOOK Technologies Main Business Overview

- 11.10.5 IPLOOK Technologies Latest Developments
- 11.11 Hewlett Packard Enterprise Company
 - 11.11.1 Hewlett Packard Enterprise Company Company Information
 - 11.11.2 Hewlett Packard Enterprise Company Edge UPF Systems Product Offered
 - 11.11.3 Hewlett Packard Enterprise Company Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Hewlett Packard Enterprise Company Main Business Overview
 - 11.11.5 Hewlett Packard Enterprise Company Latest Developments
- 11.12 H3C Technologies Co., Ltd.
 - 11.12.1 H3C Technologies Co., Ltd. Company Information
 - 11.12.2 H3C Technologies Co., Ltd. Edge UPF Systems Product Offered
 - 11.12.3 H3C Technologies Co., Ltd. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 H3C Technologies Co., Ltd. Main Business Overview
 - 11.12.5 H3C Technologies Co., Ltd. Latest Developments
- 11.13 AsiaInfo Technologies Limited
 - 11.13.1 AsiaInfo Technologies Limited Company Information
 - 11.13.2 AsiaInfo Technologies Limited Edge UPF Systems Product Offered
 - 11.13.3 AsiaInfo Technologies Limited Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 AsiaInfo Technologies Limited Main Business Overview
 - 11.13.5 AsiaInfo Technologies Limited Latest Developments
- 11.14 Amantya Technologies
 - 11.14.1 Amantya Technologies Company Information
 - 11.14.2 Amantya Technologies Edge UPF Systems Product Offered
 - 11.14.3 Amantya Technologies Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Amantya Technologies Main Business Overview
 - 11.14.5 Amantya Technologies Latest Developments
- 11.15 A5G Networks, Inc.
 - 11.15.1 A5G Networks, Inc. Company Information
 - 11.15.2 A5G Networks, Inc. Edge UPF Systems Product Offered
 - 11.15.3 A5G Networks, Inc. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 11.15.4 A5G Networks, Inc. Main Business Overview
 - 11.15.5 A5G Networks, Inc. Latest Developments
- 11.16 6WIND
 - 11.16.1 6WIND Company Information
 - 11.16.2 6WIND Edge UPF Systems Product Offered

11.16.3 6WIND Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.16.4 6WIND Main Business Overview

11.16.5 6WIND Latest Developments

11.17 Polaris Networks

11.17.1 Polaris Networks Company Information

11.17.2 Polaris Networks Edge UPF Systems Product Offered

11.17.3 Polaris Networks Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.17.4 Polaris Networks Main Business Overview

11.17.5 Polaris Networks Latest Developments

11.18 Druid Software

11.18.1 Druid Software Company Information

11.18.2 Druid Software Edge UPF Systems Product Offered

11.18.3 Druid Software Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.18.4 Druid Software Main Business Overview

11.18.5 Druid Software Latest Developments

11.19 Cumucore

11.19.1 Cumucore Company Information

11.19.2 Cumucore Edge UPF Systems Product Offered

11.19.3 Cumucore Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.19.4 Cumucore Main Business Overview

11.19.5 Cumucore Latest Developments

11.20 Amarisoft

11.20.1 Amarisoft Company Information

11.20.2 Amarisoft Edge UPF Systems Product Offered

11.20.3 Amarisoft Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.20.4 Amarisoft Main Business Overview

11.20.5 Amarisoft Latest Developments

11.21 Baicells Technologies Co., Ltd.

11.21.1 Baicells Technologies Co., Ltd. Company Information

11.21.2 Baicells Technologies Co., Ltd. Edge UPF Systems Product Offered

11.21.3 Baicells Technologies Co., Ltd. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.21.4 Baicells Technologies Co., Ltd. Main Business Overview

11.21.5 Baicells Technologies Co., Ltd. Latest Developments

11.22 Kontron AG

11.22.1 Kontron AG Company Information

11.22.2 Kontron AG Edge UPF Systems Product Offered

11.22.3 Kontron AG Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 Kontron AG Main Business Overview

11.22.5 Kontron AG Latest Developments

11.23 Hytera Communications Corporation Limited

11.23.1 Hytera Communications Corporation Limited Company Information

11.23.2 Hytera Communications Corporation Limited Edge UPF Systems Product Offered

11.23.3 Hytera Communications Corporation Limited Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.23.4 Hytera Communications Corporation Limited Main Business Overview

11.23.5 Hytera Communications Corporation Limited Latest Developments

11.24 Ruijie Networks Co., Ltd.

11.24.1 Ruijie Networks Co., Ltd. Company Information

11.24.2 Ruijie Networks Co., Ltd. Edge UPF Systems Product Offered

11.24.3 Ruijie Networks Co., Ltd. Edge UPF Systems Revenue, Gross Margin and Market Share (2021-2026)

11.24.4 Ruijie Networks Co., Ltd. Main Business Overview

11.24.5 Ruijie Networks Co., Ltd. Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Edge UPF Systems Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Edge UPF Systems Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Low-capacity UPF (Below 10 Gbps)
- Table 4. Major Players of Mid-capacity UPF (10?100 Gbps)
- Table 5. Major Players of High-capacity UPF (100?500 Gbps)
- Table 6. Major Players of Ultra-high-capacity UPF (Above 500 Gbps)
- Table 7. Major Players of Others
- Table 8. Edge UPF Systems Market Size CAGR by Throughput Capacity (2021 VS 2025 VS 2032) & (\$ millions)
- Table 9. Global Edge UPF Systems Market Size by Throughput Capacity (2021-2026) & (\$ millions)
- Table 10. Global Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)
- Table 11. Major Players of Regional Edge UPF
- Table 12. Major Players of Metro Edge UPF
- Table 13. Major Players of On-premise Enterprise Edge UPF
- Table 14. Major Players of Far-edge or Site-level UPF
- Table 15. Major Players of Others
- Table 16. Edge UPF Systems Market Size CAGR by Deployment Location (2021 VS 2025 VS 2032) & (\$ millions)
- Table 17. Global Edge UPF Systems Market Size by Deployment Location (2021-2026) & (\$ millions)
- Table 18. Global Edge UPF Systems Market Size Market Share by Deployment Location (2021-2026)
- Table 19. Edge UPF Systems Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)
- Table 20. Global Edge UPF Systems Market Size by Application (2021-2026) & (\$ millions)
- Table 21. Global Edge UPF Systems Market Size Market Share by Application (2021-2026)
- Table 22. Global Edge UPF Systems Revenue by Player (2021-2026) & (\$ millions)
- Table 23. Global Edge UPF Systems Revenue Market Share by Player (2021-2026)
- Table 24. Edge UPF Systems Key Players Head office and Products Offered

Table 25. Edge UPF Systems Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 26. New Products and Potential Entrants

Table 27. Mergers & Acquisitions, Expansion

Table 28. Global Edge UPF Systems Market Size by Region (2021-2026) & (\$ millions)

Table 29. Global Edge UPF Systems Market Size Market Share by Region (2021-2026)

Table 30. Global Edge UPF Systems Revenue by Country/Region (2021-2026) & (\$ millions)

Table 31. Global Edge UPF Systems Revenue Market Share by Country/Region (2021-2026)

Table 32. Americas Edge UPF Systems Market Size by Country (2021-2026) & (\$ millions)

Table 33. Americas Edge UPF Systems Market Size Market Share by Country (2021-2026)

Table 34. Americas Edge UPF Systems Market Size by Throughput Capacity (2021-2026) & (\$ millions)

Table 35. Americas Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)

Table 36. Americas Edge UPF Systems Market Size by Application (2021-2026) & (\$ millions)

Table 37. Americas Edge UPF Systems Market Size Market Share by Application (2021-2026)

Table 38. APAC Edge UPF Systems Market Size by Region (2021-2026) & (\$ millions)

Table 39. APAC Edge UPF Systems Market Size Market Share by Region (2021-2026)

Table 40. APAC Edge UPF Systems Market Size by Throughput Capacity (2021-2026) & (\$ millions)

Table 41. APAC Edge UPF Systems Market Size by Application (2021-2026) & (\$ millions)

Table 42. Europe Edge UPF Systems Market Size by Country (2021-2026) & (\$ millions)

Table 43. Europe Edge UPF Systems Market Size Market Share by Country (2021-2026)

Table 44. Europe Edge UPF Systems Market Size by Throughput Capacity (2021-2026) & (\$ millions)

Table 45. Europe Edge UPF Systems Market Size by Application (2021-2026) & (\$ millions)

Table 46. Middle East & Africa Edge UPF Systems Market Size by Region (2021-2026) & (\$ millions)

Table 47. Middle East & Africa Edge UPF Systems Market Size by Throughput Capacity

(2021-2026) & (\$ millions)

Table 48. Middle East & Africa Edge UPF Systems Market Size by Application

(2021-2026) & (\$ millions)

Table 49. Key Market Drivers & Growth Opportunities of Edge UPF Systems

Table 50. Key Market Challenges & Risks of Edge UPF Systems

Table 51. Key Industry Trends of Edge UPF Systems

Table 52. Global Edge UPF Systems Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 53. Global Edge UPF Systems Market Size Market Share Forecast by Region (2027-2032)

Table 54. Global Edge UPF Systems Market Size Forecast by Throughput Capacity (2027-2032) & (\$ millions)

Table 55. Global Edge UPF Systems Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 56. Huawei Technologies Co., Ltd. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 57. Huawei Technologies Co., Ltd. Edge UPF Systems Product Offered

Table 58. Huawei Technologies Co., Ltd. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 59. Huawei Technologies Co., Ltd. Main Business

Table 60. Huawei Technologies Co., Ltd. Latest Developments

Table 61. Ericsson Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 62. Ericsson Edge UPF Systems Product Offered

Table 63. Ericsson Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 64. Ericsson Main Business

Table 65. Ericsson Latest Developments

Table 66. Nokia Corporation Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 67. Nokia Corporation Edge UPF Systems Product Offered

Table 68. Nokia Corporation Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 69. Nokia Corporation Main Business

Table 70. Nokia Corporation Latest Developments

Table 71. ZTE Corporation Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 72. ZTE Corporation Edge UPF Systems Product Offered

Table 73. ZTE Corporation Edge UPF Systems Revenue (\$ million), Gross Margin and

Market Share (2021-2026)

Table 74. ZTE Corporation Main Business

Table 75. ZTE Corporation Latest Developments

Table 76. Cisco Systems, Inc. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 77. Cisco Systems, Inc. Edge UPF Systems Product Offered

Table 78. Cisco Systems, Inc. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 79. Cisco Systems, Inc. Main Business

Table 80. Cisco Systems, Inc. Latest Developments

Table 81. Samsung Electronics Co., Ltd. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 82. Samsung Electronics Co., Ltd. Edge UPF Systems Product Offered

Table 83. Samsung Electronics Co., Ltd. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 84. Samsung Electronics Co., Ltd. Main Business

Table 85. Samsung Electronics Co., Ltd. Latest Developments

Table 86. NEC Corporation Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 87. NEC Corporation Edge UPF Systems Product Offered

Table 88. NEC Corporation Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 89. NEC Corporation Main Business

Table 90. NEC Corporation Latest Developments

Table 91. Mavenir Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 92. Mavenir Edge UPF Systems Product Offered

Table 93. Mavenir Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 94. Mavenir Main Business

Table 95. Mavenir Latest Developments

Table 96. Axyom.Core Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 97. Axyom.Core Edge UPF Systems Product Offered

Table 98. Axyom.Core Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 99. Axyom.Core Main Business

Table 100. Axyom.Core Latest Developments

Table 101. IPLOOK Technologies Details, Company Type, Edge UPF Systems Area

Served and Its Competitors

Table 102. IPLOOK Technologies Edge UPF Systems Product Offered

Table 103. IPLOOK Technologies Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 104. IPLOOK Technologies Main Business

Table 105. IPLOOK Technologies Latest Developments

Table 106. Hewlett Packard Enterprise Company Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 107. Hewlett Packard Enterprise Company Edge UPF Systems Product Offered

Table 108. Hewlett Packard Enterprise Company Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 109. Hewlett Packard Enterprise Company Main Business

Table 110. Hewlett Packard Enterprise Company Latest Developments

Table 111. H3C Technologies Co., Ltd. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 112. H3C Technologies Co., Ltd. Edge UPF Systems Product Offered

Table 113. H3C Technologies Co., Ltd. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 114. H3C Technologies Co., Ltd. Main Business

Table 115. H3C Technologies Co., Ltd. Latest Developments

Table 116. AsiaInfo Technologies Limited Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 117. AsiaInfo Technologies Limited Edge UPF Systems Product Offered

Table 118. AsiaInfo Technologies Limited Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 119. AsiaInfo Technologies Limited Main Business

Table 120. AsiaInfo Technologies Limited Latest Developments

Table 121. Amantya Technologies Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 122. Amantya Technologies Edge UPF Systems Product Offered

Table 123. Amantya Technologies Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 124. Amantya Technologies Main Business

Table 125. Amantya Technologies Latest Developments

Table 126. A5G Networks, Inc. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 127. A5G Networks, Inc. Edge UPF Systems Product Offered

Table 128. A5G Networks, Inc. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 129. A5G Networks, Inc. Main Business

Table 130. A5G Networks, Inc. Latest Developments

Table 131. 6WIND Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 132. 6WIND Edge UPF Systems Product Offered

Table 133. 6WIND Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 134. 6WIND Main Business

Table 135. 6WIND Latest Developments

Table 136. Polaris Networks Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 137. Polaris Networks Edge UPF Systems Product Offered

Table 138. Polaris Networks Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 139. Polaris Networks Main Business

Table 140. Polaris Networks Latest Developments

Table 141. Druid Software Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 142. Druid Software Edge UPF Systems Product Offered

Table 143. Druid Software Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 144. Druid Software Main Business

Table 145. Druid Software Latest Developments

Table 146. Cumucore Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 147. Cumucore Edge UPF Systems Product Offered

Table 148. Cumucore Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 149. Cumucore Main Business

Table 150. Cumucore Latest Developments

Table 151. Amarisoft Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 152. Amarisoft Edge UPF Systems Product Offered

Table 153. Amarisoft Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 154. Amarisoft Main Business

Table 155. Amarisoft Latest Developments

Table 156. Baicells Technologies Co., Ltd. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 157. Baicells Technologies Co., Ltd. Edge UPF Systems Product Offered

Table 158. Baicells Technologies Co., Ltd. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 159. Baicells Technologies Co., Ltd. Main Business

Table 160. Baicells Technologies Co., Ltd. Latest Developments

Table 161. Kontron AG Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 162. Kontron AG Edge UPF Systems Product Offered

Table 163. Kontron AG Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 164. Kontron AG Main Business

Table 165. Kontron AG Latest Developments

Table 166. Hytera Communications Corporation Limited Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 167. Hytera Communications Corporation Limited Edge UPF Systems Product Offered

Table 168. Hytera Communications Corporation Limited Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 169. Hytera Communications Corporation Limited Main Business

Table 170. Hytera Communications Corporation Limited Latest Developments

Table 171. Ruijie Networks Co., Ltd. Details, Company Type, Edge UPF Systems Area Served and Its Competitors

Table 172. Ruijie Networks Co., Ltd. Edge UPF Systems Product Offered

Table 173. Ruijie Networks Co., Ltd. Edge UPF Systems Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 174. Ruijie Networks Co., Ltd. Main Business

Table 175. Ruijie Networks Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Edge UPF Systems Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Edge UPF Systems Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Edge UPF Systems Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Edge UPF Systems Sales Market Share by Country/Region (2025)
- Figure 8. Edge UPF Systems Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Edge UPF Systems Market Size Market Share by Throughput Capacity in 2025
- Figure 10. Global Edge UPF Systems Market Size Market Share by Deployment Location in 2025
- Figure 11. Edge UPF Systems in Telecom Operators
- Figure 12. Global Edge UPF Systems Market: Telecom Operators (2021-2026) & (\$ millions)
- Figure 13. Edge UPF Systems in Industrial Manufacturing
- Figure 14. Global Edge UPF Systems Market: Industrial Manufacturing (2021-2026) & (\$ millions)
- Figure 15. Edge UPF Systems in Transportation and Logistics
- Figure 16. Global Edge UPF Systems Market: Transportation and Logistics (2021-2026) & (\$ millions)
- Figure 17. Edge UPF Systems in Energy and Utilities
- Figure 18. Global Edge UPF Systems Market: Energy and Utilities (2021-2026) & (\$ millions)
- Figure 19. Edge UPF Systems in Public Safety and Government
- Figure 20. Global Edge UPF Systems Market: Public Safety and Government (2021-2026) & (\$ millions)
- Figure 21. Edge UPF Systems in Media, Venue and Enterprise Campus
- Figure 22. Global Edge UPF Systems Market: Media, Venue and Enterprise Campus (2021-2026) & (\$ millions)
- Figure 23. Edge UPF Systems in Others
- Figure 24. Global Edge UPF Systems Market: Others (2021-2026) & (\$ millions)
- Figure 25. Global Edge UPF Systems Market Size Market Share by Application in 2025

Figure 26. Global Edge UPF Systems Revenue Market Share by Player in 2025

Figure 27. Global Edge UPF Systems Market Size Market Share by Region (2021-2026)

Figure 28. Americas Edge UPF Systems Market Size 2021-2026 (\$ millions)

Figure 29. APAC Edge UPF Systems Market Size 2021-2026 (\$ millions)

Figure 30. Europe Edge UPF Systems Market Size 2021-2026 (\$ millions)

Figure 31. Middle East & Africa Edge UPF Systems Market Size 2021-2026 (\$ millions)

Figure 32. Americas Edge UPF Systems Value Market Share by Country in 2025

Figure 33. United States Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 34. Canada Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 35. Mexico Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 36. Brazil Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 37. APAC Edge UPF Systems Market Size Market Share by Region in 2025

Figure 38. APAC Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)

Figure 39. APAC Edge UPF Systems Market Size Market Share by Application (2021-2026)

Figure 40. China Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 41. Japan Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 42. South Korea Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 43. Southeast Asia Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 44. India Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 45. Australia Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 46. Europe Edge UPF Systems Market Size Market Share by Country in 2025

Figure 47. Europe Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)

Figure 48. Europe Edge UPF Systems Market Size Market Share by Application (2021-2026)

Figure 49. Germany Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 50. France Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 51. UK Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 52. Italy Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 53. Russia Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Edge UPF Systems Market Size Market Share by Region (2021-2026)

Figure 55. Middle East & Africa Edge UPF Systems Market Size Market Share by Throughput Capacity (2021-2026)

Figure 56. Middle East & Africa Edge UPF Systems Market Size Market Share by Application (2021-2026)

Figure 57. Egypt Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 58. South Africa Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 59. Israel Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 60. Turkey Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 61. GCC Countries Edge UPF Systems Market Size Growth 2021-2026 (\$ millions)

Figure 62. Americas Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 63. APAC Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 64. Europe Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 65. Middle East & Africa Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 66. United States Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 67. Canada Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 68. Mexico Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 69. Brazil Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 70. China Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 71. Japan Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 72. Korea Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 73. Southeast Asia Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 74. India Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 75. Australia Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 76. Germany Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 77. France Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 78. UK Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 79. Italy Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 80. Russia Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 81. Egypt Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 82. South Africa Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 83. Israel Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 84. Turkey Edge UPF Systems Market Size 2027-2032 (\$ millions)

Figure 85. Global Edge UPF Systems Market Size Market Share Forecast by Throughput Capacity (2027-2032)

Figure 86. Global Edge UPF Systems Market Size Market Share Forecast by Application (2027-2032)

Figure 87. GCC Countries Edge UPF Systems Market Size 2027-2032 (\$ millions)

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