

Edge Computing Market by Component (Hardware, Platform, Services), Application (Smart Cities, IIoT, Content Delivery, Remote Monitoring, AR, VR), Organization Size, Vertical, and Geography – Global Drivers, Restraints, Opportunities, Trends, and Forecast up to 2026

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Abstracts

Edge Computing Market by Component (Hardware, Platform, Services), Application (Smart Cities, IIoT, Content Delivery, Remote Monitoring, AR, VR), Organization Size, Vertical, and Geography – Global Drivers, Restraints, Opportunities, Trends, and Forecast up to 2026

Edge computing is a comprehensive process to enhance cloud computing systems. It specifically refers to the technologies that allow computation to perform at the edge of the network. These services are conducted on downstream data in the place of cloud services and upstream data in place of IoT services. Edge computing also helps in aligning data acquisition and handle functions, storage of high bandwidth content, and applications closer to the end-user. Edge computing also assists in effective data management as data processing, and data filtering can be carryout at the edge of the network, depicting cleaner data sets for cloud-based data analytics. Edge computing market growth is credited to the factors such as drastic usage of internet of things in industries, high demand for low-latency in a computer process, and self-executing decision-making solutions.

The scope of the Edge Computing Market is defined in the market analysis as follows:

Based on components

Hardware

Platform

Services

Based on Applications

Smart Cities

Location Services

Analytics

Environmental Monitoring

Optimized Local Content

Data Caching

Augmented Reality

Others

Based on Organization sizes

Small and Medium-sized Enterprises (SMEs)

Large Enterprises

Based on Verticals

Vertical

Manufacturing

Healthcare

Transportation

Government

Media and Entertainment

Energy and Utilities

Telecom & IT

Retail

Others

Based on Geography:

North America

Europe

Asia Pacific

Rest of the World

The market by component includes hardware, platform, and services. The hardware component is assumed to take up the major market size in the forecast period, for the reason that the large-scale acquisition of hardware components for decentralizing storage and computing operations, enabling inclusive edge infrastructure deployment, and decreasing network traffic. Organizations provide upgraded edge computing hardware that either work as an initial point of data source or a facilitator of the total network or performs as storage and local processing unit in the overall edge computing

procedure. Further, in the edge computing market by application, the smart cities application possesses major share as it augments the security of the buildings in the cities, automatic facilities in the home and enhances the management of the traffic in the smart city to tackle with the heavy traffic in the metro cities.

The acquisition of edge computing solutions in large enterprises is extreme since the growing trend of data, which is accredited to the widely spread geographical existence and regular customers. Moreover, the rising demand of employees to ingress computing solutions and applications everywhere while secure and proper data storage propelling the demand of edge computing solutions in large enterprises. For example, large manufacturing companies required to correspond with ample data from sensors or actuators connected to their physical assets, such as machines, turbines, and lifts with historical information. Therefore, this helps them to identify or estimate failures in a short time to ignore pause time and loss in production.

North America is considered as the largest revenue-generating region in this market. The integration of edge computing with the industrial internet of things (IIoT) has intensified manufacturers in the U.S to move towards connected factories. Additionally, the arrival of various start-ups providing opportunities to develop an edge-enabled solution is pushing the industry growth in this region.

Globally, the Edge Computing Market will grow at a CAGR of 37.5% during the forecast period, with a base value of \$4.04 billion in 2020, to \$26.62 billion in 2026. The factors pushing this market growth are the increasing usage of 'internet of things' in all sectors for the easy flow of work without human-to-human interaction, increasing demand for automatic decision-making solutions, and overcoming the drastic increase in data.

The report also includes the analysis of major players in the Edge Computing market. Some of the major players consist of Cisco, HPE, Huawei, Unit4, Dell Technologies, Microsoft Corporation, NOKIA, IBM, Foghorn Systems, and Machineshop.

Hence, the arrival of automated vehicles and connected car technology enhances the effectiveness of edge computing. This study will assist the major competitors in knowing the significant market tendency, market fluctuations, and potential needs of the end-users.

This report provides a complete analysis of present factors driving the market, market opportunities, conflicts, and challenges faced by the players.

Edge computing market's overall analysis based on different segments is presented in this research.

Edge computing market is analyzed quantitatively which enables the users to understand the market evolution in all four geographical regions

Contents

- Executive Summary
- Industry Outlook
- Industry Overview
- Industry Trends
- Market Snapshot
- Total Addressable Market
- Segment Addressable Market
- PEST Analysis
- Porter Five Forces
- Related Markets
- Ecosystem
- Market Outlook
- Overview
- Market Evolution
- Market Trends and Impact
- Pricing Analysis
- Market Segmentation
- Market Dynamics
- Drivers
- Restraints
- Opportunities
- DRO - Impact Analysis
- Component: Market Size & Analysis
- Overview
- Hardware
- Platform
- Services
- Vertical: Market Size & Analysis
- Overview
- Vertical
- Manufacturing
- Healthcare
- Transportation
- Government
- Media and Entertainment
- Energy and Utilities
- Telecom & IT

Retail

Others

Application: Market Size & Analysis

Overview

Smart Cities

Location Services

Analytics

Environmental Monitoring

Optimized Local Content

Data Caching

Augmented Reality

Others

Organization Sizes: Market Size & Analysis

Overview

Small and Medium-sized Enterprises

Large Enterprises

Geography: Market Size & Analysis

Overview

North America

Europe

Asia Pacific

Rest of the World

Competitive Landscape

Competitor Comparison Analysis

Market Developments

Mergers and Acquisitions, Legal, Awards, Partnerships

Product Launches and execution

Vendor Profiles

Cisco

Overview

Business Units

Geographic Revenue

Product Offerings

Developments

Business Strategy

HPE

Overview

Business Units

Geographic Revenue

Product Offerings
Developments
Business Strategy
Huawei
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Unit4
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Dell Technologies
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
NOKIA
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Microsoft Corporation
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
IBM

Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Foghorn Systems
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Machineshop
Overview
Business Units
Geographic Revenue
Product Offerings
Developments
Business Strategy
Companies to Watch
Saguna Networks
Overview
Market
Business Strategy
Litmus Automation
Overview
Market
Business Strategy
Sixsq
Overview
Market
Business Strategy
Azion Technologies
Overview
Market
Business Strategy
Vapor Io
Overview

Market
Business Strategy
Adlink
Overview
Market
Business Strategy
Altran
Overview
Market
Business Strategy
Axellio
Overview
Market
Business Strategy
Analyst Opinion
Annexure
Report Scope
Market Definitions
Research Methodology
Data Collation and In-house Estimation
Market Triangulation
Forecasting
Report Assumptions
Declarations
Stakeholders
Abbreviations

List Of Tables

LIST OF TABLES

- GLOBAL EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR HARDWARE, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR PLATFORM, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR SERVICES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR MANUFACTURING, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR HEALTHCARE, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR TRANSPORTATION, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR GOVERNMENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR MEDIA AND ENTERTAINMENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR ENERGY AND UTILITIES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR TELECOM & IT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR RETAIL, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR OTHER, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR APPLICATION, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR SMART CITIES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR LOCATION SERVICES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR ANALYTICS, BY GEOGRAPHY,

2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR ENVIRONMENTAL MONITORING, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR OPTIMIZED LOCAL CONTENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR DATA CACHING, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR AUGMENTED REALITY, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR OTHERS, BY GEOGRAPHY, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION).

EUROPE EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY APPLICATION,
2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY COMPONENT,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY VERTICAL,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY APPLICATION,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION
SIZES, 2020-2026 (USD MILLION)

CISCO.: OVERVIEW

CISCO.: STRATEGIC SNAPSHOT

CISCO.: BUSINESS OPPORTUNITIES AND OUTLOOK

CISCO.: PRODUCT/SERVICE PORTFOLIO

HPE: OVERVIEW

HPE: STRATEGIC SNAPSHOT

HPE: BUSINESS OPPORTUNITIES AND OUTLOOK

HPE: PRODUCT/SERVICE PORTFOLIO

HUAWEI: OVERVIEW

HUAWEI: STRATEGIC SNAPSHOT

HUAWEI: BUSINESS OPPORTUNITIES AND OUTLOOK

HUAWEI: PRODUCT/SERVICE PORTFOLIO

UNIT4.: OVERVIEW

UNIT4.: STRATEGIC SNAPSHOT

UNIT4.: BUSINESS OPPORTUNITIES AND OUTLOOK

UNIT4.: PRODUCT/SERVICE PORTFOLIO

DELL TECHNOLOGIES: OVERVIEW

DELL TECHNOLOGIES: STRATEGIC SNAPSHOT

DELL TECHNOLOGIES: BUSINESS OPPORTUNITIES AND OUTLOOK

DELL TECHNOLOGIES: PRODUCT/SERVICE PORTFOLIO

NOKIA.: OVERVIEW

NOKIA.: STRATEGIC SNAPSHOT

NOKIA.: BUSINESS OPPORTUNITIES AND OUTLOOK

NOKIA.: PRODUCT/SERVICE PORTFOLIO

MICROSOFT CORPORATION: OVERVIEW

MICROSOFT CORPORATION: STRATEGIC SNAPSHOT

MICROSOFT CORPORATION: BUSINESS OPPORTUNITIES AND OUTLOOK

MICROSOFT CORPORATION: PRODUCT/SERVICE PORTFOLIO

IBM.: OVERVIEW

IBM.: STRATEGIC SNAPSHOT

IBM.: BUSINESS OPPORTUNITIES AND OUTLOOK

IBM.: PRODUCT/SERVICE PORTFOLIO

FOGHORN SYSTEMS: OVERVIEW

FOGHORN SYSTEMS: STRATEGIC SNAPSHOT

FOGHORN SYSTEMS: BUSINESS OPPORTUNITIES AND OUTLOOK

FOGHORN SYSTEMS: PRODUCT/SERVICE PORTFOLIO

MACHINESHOP.: OVERVIEW

MACHINESHOP.: STRATEGIC SNAPSHOT

MACHINESHOP.: BUSINESS OPPORTUNITIES AND OUTLO

MACHINESHOP.: PRODUCT/SERVICE PORTFOLIO

List Of Figures

LIST OF FIGURES

- GLOBAL EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR HARDWARE, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR PLATFORM, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR SERVICES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR MANUFACTURING, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR HEALTHCARE, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR TRANSPORTATION, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR GOVERNMENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR MEDIA AND ENTERTAINMENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR ENERGY AND UTILITIES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR TELECOM & IT, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR RETAIL, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR OTHER, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR APPLICATION, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR SMART CITIES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR LOCATION SERVICES, BY GEOGRAPHY, 2020-2026 (USD MILLION)
- GLOBAL EDGE COMPUTING MARKET VALUE FOR ANALYTICS, BY GEOGRAPHY,

2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR ENVIRONMENTAL MONITORING, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR OPTIMIZED LOCAL CONTENT, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR DATA CACHING, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR AUGMENTED REALITY, BY GEOGRAPHY, 2020-2026 (USD MILLION)

GLOBAL EDGE COMPUTING MARKET VALUE FOR OTHERS, BY GEOGRAPHY, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

NORTH AMERICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION).

EUROPE EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

EUROPE EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY APPLICATION, 2020-2026 (USD MILLION)

ASIA PACIFIC EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY COMPONENT, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY VERTICAL, 2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY APPLICATION,
2020-2026 (USD MILLION)

LATIN AMERICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION SIZES,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY COMPONENT,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY VERTICAL,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY APPLICATION,
2020-2026 (USD MILLION)

MIDDLE EAST & AFRICA EDGE COMPUTING MARKET VALUE, BY ORGANIZATION
SIZES, 2020-2026 (USD MILLION)

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