

Connector Market Forecast to 2030: Global Trends, Opportunities and Competitive Analysis

<https://marketpublishers.com/r/C528626E4A65EN.html>

Date: April 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: C528626E4A65EN

Abstracts

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Connector Market Introduction

Connectors play a crucial role in various industries by facilitating the transfer of signals, power, and data between electronic devices and systems. The global connector market has witnessed significant growth in recent years, driven by the increasing demand for seamless connectivity solutions across sectors such as automotive, telecommunications, aerospace, and consumer electronics. This market report provides a comprehensive analysis of the connector market, including market share, key players, and industry trends.

Connector Market Overview

The future of the global connector market looks promising with opportunities in the transportation, telecom / datacom, computer and peripheral, industrial, and consumer electronics industries. The global connector market is expected to reach an estimated \$98.2 billion by 2030 with a CAGR of 4.1% from 2024 to 2030. The major drivers for this market are growth in communication and consumer electronics industries, miniaturization of electronic devices, and increasing electronic content in vehicles.

The connector market has experienced substantial growth. The proliferation of electronic devices, the growth of advanced communication networks, and the increasing need for compact and reliable connectivity solutions have been the primary drivers for the market's expansion. Connectors are essential components that ensure efficient and secure connections, enabling the seamless transfer of signals and power in various

applications.

Lucintel forecasts that PCB connectors will remain the largest segment due to growth in the computer, consumer electronics, and communication end use industries

Transportation will remain the largest end use industry and witness the highest growth during the forecast period due to increasing electronic content in vehicles, increasing need for safety systems, and growing demand for hybrid and electric vehicles..

Asia Pacific will remain the largest region, and it is also expected to witness the highest growth over the forecast period, supported by increasing automotive production, growing demand for tablets and smartphones, and growth in demand for home appliances.

A total of 95 figures / charts and 73 tables are provided in this 195-page report to help in your business decisions. A sample figure with insights is shown below.

Asia Pacific will remain the largest market in the Connector Market

1. United States: Companies like TE Connectivity and Molex are expanding their portfolios with advanced connectors for automotive and industrial applications. The US government's focus on electric vehicles and smart manufacturing supports market growth.

2. China: Firms such as Amphenol and Hirose Electric are enhancing production capacities to cater to the growing consumer electronics and telecommunications sectors. Government initiatives promoting 5G infrastructure drive market expansion.

3. Germany: Companies like Phoenix Contact and Harting Technology Group are focusing on connectors for Industry 4.0 and renewable energy applications. Germany's government policies on digitalization and green energy boost market growth.

4. Japan: Firms such as Japan Aviation Electronics and Yazaki Corporation are developing high-performance connectors for automotive and robotics applications. Government investment in advanced manufacturing technologies supports market

advancements.

5. India: Companies like Minda Industries and L&T Electrical & Automation are expanding their connector offerings for the automotive and energy sectors. Government initiatives like "Make in India" and smart city projects drive market demand.

Emerging Trends in the Connector Market

With the demand for smaller, lighter, and more efficient electronic devices, there is a growing trend towards miniaturization of connectors. Manufacturers are developing compact connectors with high-speed capabilities to meet the requirements of emerging applications such as IoT devices, wearables, and mobile computing.

As data transfer speeds continue to rise, the demand for fiber optic connectors is growing rapidly. Fiber optic connectors offer high bandwidth, low signal loss, and immunity to electromagnetic interference, making them ideal for telecommunications, data centers, and high-speed networks.

The advent of Industry 4.0 and the implementation of smart manufacturing principles have driven the demand for connectors in industrial automation and control systems. Connectors play a crucial role in enabling the interconnection of machines, sensors, and devices, facilitating data exchange and automation processes.

Emerging trends, which have a direct impact on the dynamics of the industry, include increasing demand for high speed connectors, shift towards compact and thinner connectors, and development of high power connectors.

Connector Market by Segment

The study includes a forecast for the global connector market by product type, end use industry, and region as follows:

Connector Market by Product Type [Value (\$M) and Volume (Million Unit) shipment analysis for 2018 – 2030]:

PCB (Printed Circuit Board) Connectors

Rectangular I/O

Application Specific Connectors

Fiber Optic Connectors

RF (Radio Frequency) Coax

Circular Connectors

IC (Integrated Circuit) Sockets

Others

Connector Market by End Use Industry [Value (\$M) and Volume (Million Unit) shipment analysis for 2018 – 2030]:

Transportation

Consumer Electronics

Computer and Peripherals

Industrial

Telecom/Datacom

Others

Connector Market by Region [Value (\$M) and Volume (Million Unit) shipment analysis for 2018 – 2030]:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Asia Pacific

China

Japan

India

South Korea

The Rest of the World

Connector Market Share

The global connector market is witnessing significant growth, driven by the increasing demand for seamless connectivity solutions across various industries. Key players in the market continue to innovate and expand their product portfolios to meet the evolving needs of industries such as automotive, telecommunications, aerospace, and consumer electronics. With emerging trends such as miniaturization, high-speed connectivity, and the adoption of fiber optic connectors, the connector market is expected to experience continued growth in the foreseeable future. Industry stakeholders need to stay abreast of these trends and adapt their strategies to harness the opportunities presented by the expanding market.

Connector Manufacturers

The connector market is highly competitive, with several key players dominating the

industry and holding significant market share. Companies such as TE Connectivity Ltd., Amphenol Corporation, Molex LLC, have established their presence and enjoy a strong market position. These players invest heavily in research and development to introduce innovative connector solutions, expand their product portfolios, and cater to the evolving needs of diverse industries.

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies connector companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the connector companies profiled in this report includes.

TE Connectivity

Amphenol Corporation

Molex Incorporated

Hon Hai Precision Industry

Volex PLC

Japan Aviation Electronics Industry

Aptiv Plc.

Hirose Electric Co.

Rosenberger

Yazaki Co.

Luxshare ICT

Samtec Inc.

Recent Developments in the Connector Market

Rise of High-Speed Connectors for Data Centers and 5G Networks: With the increasing demand for high-speed data transmission in data centers and 5G networks, there's a growing market for high-speed connectors capable of supporting high data rates and low latency. Recent developments include the introduction of high-speed connectors with enhanced signal integrity, reduced crosstalk, and higher bandwidth to meet the requirements of next-generation communication systems.

Expansion of Miniaturized Connectors for Wearable Devices and IoT: The proliferation of wearable devices, IoT (Internet of Things) sensors, and portable electronics is driving the demand for miniaturized connectors with compact form factors and high reliability. Recent developments include the development of ultra-miniature connectors, board-to-board connectors, and flex-to-board connectors designed to meet the space constraints and ruggedness requirements of wearable and IoT applications.

Advancements in Automotive Connectors for Electric Vehicles (EVs) and Autonomous Driving: The automotive industry is witnessing a shift towards electric vehicles (EVs), autonomous driving technologies, and advanced driver-assistance systems (ADAS), leading to increased demand for specialized automotive connectors. Recent developments include the introduction of high-voltage connectors, ruggedized connectors for harsh environments, and automotive Ethernet connectors to support the connectivity and power requirements of EVs and autonomous vehicles.

Focus on Environmental Sustainability and Compliance: There's a growing emphasis on environmental sustainability and regulatory compliance in the connector industry. Recent developments include the development of eco-friendly connector materials, such as halogen-free and RoHS-compliant plastics, as well as the adoption of sustainable manufacturing processes and recycling initiatives to minimize the environmental impact of connector production and disposal.

Integration of Smart Features and Sensor Technologies:

Connectors are evolving beyond passive interconnect components to incorporate smart features and sensor technologies for enhanced functionality and performance monitoring. Recent developments include the integration of RFID (Radio-Frequency Identification) tags, temperature sensors, and moisture sensors into connectors for asset tracking, condition monitoring, and predictive maintenance applications across various industries.

Supply Chain Resilience and Digital Transformation: The connector industry is undergoing digital transformation to improve supply chain resilience, enhance manufacturing efficiency, and enable remote collaboration. Recent developments include the adoption of digital twin technology, cloud-based design tools, and advanced analytics for predictive maintenance and inventory management, enabling connector manufacturers to adapt to changing market demands and disruptions.

Features of Connector Market

Market Size Estimates: Connector market size estimation in terms of value (\$M) and volume (Million Unit)

Trend and Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Market size by product type and end use industry

Regional Analysis: Connector market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different product type, end use industry, and regions for the connector market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the connector market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

Frequently Asked Questions (FAQ)

Q1. How big is the connector market?

Answer: The global connector market is expected to reach an estimated \$98.2 billion by 2030.

Q2. What is the growth forecast for connector market?

Answer: The connector market is expected to grow at a CAGR of 4.1% from 2024 to 2030.

Q3. What are the key factors driving the growth of Connector Industry?

Answer: The major drivers for this market are growth in communication and consumer electronics industries, miniaturization of electronic devices, and increasing electronic content in vehicles.

Q4. What are the major applications or end use industries for connector?

Answer: Transportation is the major end use industries for connector.

Q5. What are the emerging trends in connector market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include increasing demand for high speed connectors, shift towards compact and thinner connectors, and development of high power connectors.

Q6. Who are the key connector companies?

Answer: Some of the key connector companies are as follows:

TE Connectivity

Amphenol Corporation

Molex Incorporated

Hon Hai Precision Industry

Volex PLC

Japan Aviation Electronics Industry

Aptiv Plc.

Hirose Electric Co.

Rosenberger

Yazaki Co.

Luxshare ICT

Samtec Inc.

Q7.Which connector product type segment will be the largest in future?

Answer: Lucintel forecasts that PCB connectors will remain the largest segment due to growth in the computer, consumer electronics, and communication end use industries.

Q8: Which is the largest connector supplier?

Answer:Asia Pacific is expected to remain the largest region and witness the good growth over next 5 years.

Q9. Do we receive customization in this report?

Answer:Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high growth opportunities for the global connector market by product type (PCB (Printed Circuit Board) connectors, fiber optic connectors, rectangular I/O, RF (Radio Frequency) coax, application specific connectors, circular connectors, IC (Integrated circuit) sockets, and others), end use industry (transportation, consumer electronics, computer and peripherals, industrial, telecom/datacom, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

For any questions related to connector market or related connector market share, connector market analysis, connector market size, automotive connector market, and fiber optic connector market, write to Lucintel analysts at helpdesk@lucintel.com. We will be glad to get back to you soon.

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