

# Global Serial to Fiber Media Converters Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Serial to Fiber Media Converters market size was valued at USD 401.7 million in 2022 and is forecast to a readjusted size of USD 571.6 million by 2029 with a CAGR of 5.2% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Industrial Ethernet networks demand extended reach for data transmission. Industrial Ethernet networks consist of multiple data terminal equipment (DTE) and data communication equipment (DCEs) integrated together. To transmit data from the DTE to DCEs, Ethernet-compliant transmission media such as copper cables, fiber optics cables, etc are utilized. In modern industrial Ethernet networks, fiber optics has become a highly preferred choice due to its efficiency, data security, transmission speed, and higher bandwidth, etc. Since data signals transmitted from the DTE are in electric form, electric-optical data conversion is required. For the data conversion, the media converters are utilized. The Ethernet network extension is often done to accommodate long distance data transmission requirements. To achieve the same, serial-to-fiber media converters are utilized.

The Serial to Fiber Media Converters market refers to the market for devices that convert serial data signals to optical fiber signals, allowing data to be transmitted over longer distances with higher speed and reliability. These converters are used in a variety of industries, including industrial automation, transportation, and telecommunications.

The market for Serial to Fiber Media Converters is expected to grow steadily in the

coming years, driven by the increasing demand for high-speed data transmission over long distances, as well as the growing need for secure and reliable data communication in critical applications. Some of the key factors driving growth in this market include:

**Increasing demand for high-speed data transmission:** As data volumes continue to grow, there is an increasing need for faster and more reliable data transmission over longer distances. Serial to Fiber Media Converters offer a cost-effective and efficient way to transmit data over longer distances with minimal loss or interference.

**Growing need for secure and reliable data communication:** In many industries, such as transportation and industrial automation, the reliability and security of data communication is critical. Serial to Fiber Media Converters offer a secure and reliable way to transmit data over longer distances, minimizing the risk of data loss or interference.

**Advancements in technology:** With the ongoing advancements in technology, Serial to Fiber Media Converters are becoming more advanced, reliable, and cost-effective. This is making them more accessible to a wider range of industries and applications.

Some of the key players in the Serial to Fiber Media Converters market include Advantech, Moxa, Perle Systems, Black Box Corporation, Lantronix and Antaira Technologies.

In terms of application, the factory automation segment is expected to hold the largest market share during the forecast period, driven by the increasing demand for automation solutions in various industries and the need for secure and reliable data communication in industrial environments.

Overall, the Serial to Fiber Media Converters market is expected to experience steady growth in the coming years, driven by the increasing demand for high-speed, secure, and reliable data communication over longer distances.

Serial to fiber converters, sometimes also called fiber optic modem (FOM), is a device which provides electrical to optical conversion of electronic communication and data signals for transmission using tactical fiber optic cable assemblies. The converter simultaneously receives incoming optical signals and converts them back to the original electronic signal allowing for full duplex transmission. Together with the tactical fiber optic cables, the converter provides a rugged, secure, and easy deployable optical link.

The serial-to-fiber media converter is available in both single and multi-channel configurations and supports both point-to-point and multi-point configurations.

This report is a detailed and comprehensive analysis for global Serial to Fiber Media Converters market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

#### Key Features:

Global Serial to Fiber Media Converters market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Serial to Fiber Media Converters market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Serial to Fiber Media Converters market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Serial to Fiber Media Converters market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Serial to Fiber Media Converters

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Serial to Fiber Media Converters market

based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Moxa, Antaira Technologies, Perle, Advantech and Phoenix Contact, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

## Market Segmentation

Serial to Fiber Media Converters market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Single-mode

Multi-mode

### Market segment by Application

IP Security

Factory Automation

Transportation Systems

Electric Utility

Others

### Major players covered

Moxa

Antaira Technologies

Perle

Advantech

Phoenix Contact

Lantronix

Dymec

RLH Industries

Kyland Technology

Planet Technology

Korenix Technology

Red Lion Controls (Spectris)

Omnitron Systems

Black Box

Fiberplex Technologies (Patton)

Versitron

Siemens

Weidmüller

SerialComm

CommFront

CTC Union

Helicomm

UOTEK

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Serial to Fiber Media Converters product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Serial to Fiber Media Converters, with price, sales, revenue and global market share of Serial to Fiber Media Converters from 2018 to 2023.

Chapter 3, the Serial to Fiber Media Converters competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Serial to Fiber Media Converters breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Serial to Fiber Media Converters market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Serial to Fiber Media Converters.

Chapter 14 and 15, to describe Serial to Fiber Media Converters sales channel, distributors, customers, research findings and conclusion.

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