

# Global Time-Sensitive Networking (TSN) Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Time-Sensitive Networking (TSN) market size was valued at USD 171.2 million in 2023 and is forecast to a readjusted size of USD 2562.8 million by 2030 with a CAGR of 47.2% during review period.

A set of IEEE 802 Ethernet sub-standards is called time-sensitive networking (TSN), which is defined by the IEEE TSN task group. Such standards allow deterministic real-time communication over the ethernet. Determinism over ethernet is achieved by TSN, by using time synchronization and a schedule that is shared between network components. By defining queues based on time, TSN ensures a bounded maximum latency for scheduled traffic through switched networks. This states that in a TSN network, latency of critical scheduled communication is guaranteed.

Global key players of time-sensitive networking (TSN) include Belden, Cisco, Microchip Technology, Xilinx (AMD) and Intel, etc. The top five players hold a share about 47%. In terms of product, switches is the largest segment, with a share about 53%. And in terms of application, the largest application is industrial automation, which has a share about 43%.

The Global Info Research report includes an overview of the development of the Time-Sensitive Networking (TSN) industry chain, the market status of Industrial Automation (Switches, Hubs, Routers, & Gateways), Energy and Power (Switches, Hubs, Routers, & Gateways), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Time-Sensitive Networking (TSN).

Regionally, the report analyzes the Time-Sensitive Networking (TSN) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Time-Sensitive Networking (TSN) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Time-Sensitive Networking (TSN) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Time-Sensitive Networking (TSN) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Component (e.g., Switches, Hubs, Routers, & Gateways).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Time-Sensitive Networking (TSN) market.

**Regional Analysis:** The report involves examining the Time-Sensitive Networking (TSN) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Time-Sensitive Networking (TSN) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Time-Sensitive Networking (TSN):

**Company Analysis:** Report covers individual Time-Sensitive Networking (TSN) players, suppliers, and other relevant industry players. This analysis includes studying their

financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Time-Sensitive Networking (TSN) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by End Use (Industrial Automation, Energy and Power).

**Technology Analysis:** Report covers specific technologies relevant to Time-Sensitive Networking (TSN). It assesses the current state, advancements, and potential future developments in Time-Sensitive Networking (TSN) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Time-Sensitive Networking (TSN) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Time-Sensitive Networking (TSN) market is split by Component and by End Use. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Component, and by End Use in terms of value.

### Market segment by Component

Switches

Hubs, Routers, & Gateways

Connectors

Power Supply Devices

Controllers & Processors

Memory

Others

### Market segment by End Use

Industrial Automation

Energy and Power

Automotive & Transportation

Oil & Gas

Others

### Market segment by players, this report covers

Belden

Cisco

Intel

Marvell Technology

Microchip Technology

NXP

National Instruments

Analog Devices

Xilinx (AMD)

Broadcom

Advantech

Renesas Electronics

TTTech

Kyland Technology

ORing Industrial Networking

Infinera

Kontron

WAGO

HMS Networks

Moxa

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Time-Sensitive Networking (TSN) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Time-Sensitive Networking (TSN), with revenue, gross margin and global market share of Time-Sensitive Networking (TSN) from 2019 to 2024.

Chapter 3, the Time-Sensitive Networking (TSN) competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Component and application, with consumption value and growth rate by Component, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Time-Sensitive Networking (TSN) market forecast, by regions, component and end use, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Time-Sensitive Networking (TSN).

Chapter 13, to describe Time-Sensitive Networking (TSN) research findings and conclusion.

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