

# **Single Pair Ethernet Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Infrastructure & Device Components and Software & Services), Infrastructure & Device Components [Cables (10Base-T1, 100Base-T1, 1000Base-T1), Connectors, and Others], and Application (Robotics & Automation, Automotive & Transportation, Energy, Machinery, and Others)**

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## **Abstracts**

The single pair ethernet market size was valued at US\$ 2.32 billion in 2022 and is expected to reach US\$ 6.20 billion by 2030; it is estimated to record a CAGR of 13.1% from 2022 to 2030.

Digital transformation and smart factories are transforming the industrial sector outlook. Amid the COVID-19 pandemic, manufacturers focused on implementing innovative technologies to ensure uninterrupted production processes while following all mandatory safety protocols. Manufacturing and processing enterprises are progressively adopting smart factory setups. Factors such as the explosion of information and scaling of enterprise IoT, shift toward cloud IT infrastructure, use of predictive maintenance, adoption of hybrid workplaces and intelligent technologies, and expansion of distributed manufacturing are driving the transformation of manufacturing plants into digital enterprises. Moreover, with a combination of Artificial Intelligence (AI) and machine learning (ML), the arrival of hybrid workplaces utilizing augmented intelligence tools is also rising. With the rapid pace of integrating digital tools into manufacturing, the acceptance of smart factories is also increasing. Thus, the rising proliferation of smart factories is increasing the single pair ethernet market growth. Also, the factors

mentioned above were also considered while calculating the single pair ethernet market forecast since they are positively impacting the single pair ethernet market size. Single pair ethernet services enable enterprises to connect critical business locations cost-effectively and reliably secure network infrastructure. Ethernet Services provide the bandwidth and virtual routing capabilities required to support critical applications such as Voice over IP (VoIP) and e-commerce capabilities. Ethernet Services are commonly used to support business continuity and disaster avoidance strategies and plans, which are crucial to ensuring businesses can continue operating and fulfill their customers' needs. SPE connections transmit data and power over a single twisted pair. This provides end-to-end IP connectivity between the sensor and cloud and a power supply in complicated IIoT solutions. SPE allows field devices, sensors, and actuators to be incorporated directly into an existing ethernet environment—without the need for extra gateways and interfaces.

SPE software & services create the foundation for real-time communication between devices on the network, the enterprise backbone, and the cloud. This enables seamless and transparent communication from sensors and actuators to the cloud, facilitating improved process efficiency.

Overall, the software & services segment in the single pair ethernet market facilitate the seamless integration, efficient operation, and optimization of this technology in industrial applications, leading to improved process efficiency, reduced costs, and enhanced connectivity capabilities. Single pair ethernet cables are copper cables with only one twisted pair (single pair) for data transfer, especially in industrial applications. However, traditional ethernet cables utilized for LAN connections or industrial ethernet cables use two or four pairs of wires depending on the transmission rate.

#### Single Pair Ethernet Market Segmental Overview

The global single pair ethernet market is segmented on the basis of type, infrastructure & device components, application, and geography. By type, the market is bifurcated into infrastructure & device components and software & services. Based on infrastructure & device components, the market is segmented into cables, connectors, and others. The cables segment is further segmented into 10Base-T1, 100Base-T1, and 1000Base-T1. Based on application, the market is segmented into robotics & automation, automotive & transportation, energy, machinery, and others. By geography, the single pair ethernet market share is split between North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South America (SAM).

#### Single Pair Ethernet Market Competitive Landscape and Key Developments

Major single pair ethernet market players are taking measures to take advantage of the opportunities in emerging markets. Analog Devices Inc, Belden Inc, HARTING Applied Technologies GmbH, Lapp Holding SE, LEONI AG, Phoenix Contact Development and Manufacturing Inc, TE Connectivity Ltd, The Siemon Co, Weidmuller Interface GmbH &

Co KG, and W?rth Elektronik GmbH & Co KG are among the prominent players included in the global single pair ethernet market report. Several other important players were also analyzed during this single pair ethernet market analysis to get a holistic view of the global market and its ecosystem. The leading global single pair ethernet market players focus on feature upgrades, expansion and diversification, collaboration, and acquisition strategies, which enable them to grab new business opportunities.

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