

Asia Pacific High Speed Cable Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: Type [Direct Attach Copper (DAC) Cable, Active Optical Cables (AOC), Active Copper Cables, PCIe Cable, Active Electric Cable (AEC), and SAS Cable] and Application (Switch to Switch Interconnect, Switch to Server, and Server to Storage Interconnect)

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Abstracts

The Asia Pacific High Speed Cable Market is projected to grow significantly, reaching an estimated US\$ 6,090.0 million by 2031, up from US\$ 2,951.3 million in 2024. This growth represents a compound annual growth rate (CAGR) of 11.2% from 2025 to 2031, highlighting the region's rapid expansion in high-speed cable demand.

Executive Summary and Market Analysis

The Asia Pacific region is currently the fastest-growing market for high-speed cables, driven by several key factors including rapid urbanization, a surge in internet users, and ongoing technological advancements in major countries such as China, Japan, South Korea, and India. The rollout of 5G networks, the construction of large-scale data centers, and the burgeoning electric vehicle (EV) market are creating significant opportunities for the deployment of high-speed cables across various sectors, including telecommunications, transportation, and energy.

The automotive industry is a notable contributor to the increasing demand for high-speed cables. As electric vehicles gain popularity in countries like China, Japan, and

South Korea, automotive manufacturers are seeking high-speed cables for diverse applications, including the transmission of image data, multifunction displays, and infotainment systems for rear-seat passengers. China, being the largest EV market globally, has set ambitious targets for electric mobility, further driving the demand for high-performance components.

Market Segmentation

The Asia Pacific High Speed Cable Market can be segmented by type and application.

By Type: The market includes various types of cables such as Direct Attach Copper (DAC) Cable, Active Optical Cables (AOC), Active Copper Cables, PCIe Cable, Active Electric Cable (AEC), and SAS Cable. Among these, Active Optical Cables (AOC) held the largest market share in 2024.

By Application: The market is also segmented based on application, including Switch to Switch Interconnect, Switch to Server, and Server to Storage Interconnect, with Switch to Switch Interconnect dominating the market in 2024.

Market Dynamics

Passive DACs, which are essentially premium copper wires without embedded electronics, are significantly less expensive than their counterparts due to the absence of complex components. In contrast, advanced chipsets in AECs and VCSEL lasers in AOCs can increase costs by two to five times. DACs are particularly useful in 5G networks for short-range connections, such as those found in O-RAN cell sites and edge data centers, supporting high-speed data transport with low latency and power consumption. For example, passive QSFP28 DACs can support data rates of 100 Gb/s, while SFP28 DACs can handle 25 Gb/s. The high traffic and dense cell structures of 5G networks necessitate backhaul connections capable of managing hundreds of gigabits, which in turn drives the demand for high-speed Ethernet connections, such as 400G or higher.

The deployment of 5G infrastructure is a major factor propelling the demand for high-speed cables. Countries worldwide are increasingly investing in 5G connectivity, which is expected to further stimulate market growth. According to a 2025 report by Spirent, countries like China, Japan, North America, and Germany have achieved 96% population coverage with 5G, while India has reached 80% coverage. This widespread

deployment of 5G technology is creating substantial opportunities for high-speed cable adoption.

Country Insights

The Asia Pacific High Speed Cable Market is also analyzed by country, with significant segments including China, Japan, India, South Korea, Australia, and the Rest of APAC. China is expected to hold the largest market share in 2024.

As of June 2024, China has made substantial investments as part of its Eastern Data, Western Computing initiative, launched in 2022. This initiative aims to optimize the country's digital infrastructure and support its rapid economic and technological growth. It involves establishing eight large-scale data center clusters across China, which are projected to attract up to US\$ 63 billion in annual investment. This ambitious program is designed to enhance data processing efficiency and scalability, creating a substantial demand for advanced technological solutions, including high-speed cabling and networking systems.

The establishment of these data center clusters is expected to significantly increase the demand for high-speed cables, particularly fiber-optic networks, to support the growing volume of data traffic as these centers become operational. With the Chinese government's substantial investments in digital infrastructure, the demand for high-speed cable solutions is anticipated to surge, making it a critical component of the country's digital transformation.

Competitive Landscape

Key players in the High Speed Cable Market include Molex LLC, TE Connectivity Ltd, NVIDIA Corp, Samtec Inc, Axon Cable SAS, Amphenol Corporation, JPC Connectivity, Shenzhen Sopto Technology Co., Ltd., Volex Plc, and EDGE Optical Solutions. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

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