

Vietnam Fibre Optic Components Market Segmented Type (Cables, Splitters, Active Optical Cables, Transceivers, Amplifiers, Circulators, Connectors and Others), By Data Rate (10G, 40G, 100G and Above 100G), By Application (Distributed Sensing, Analytical & Medical Equipment, Lighting, Communication, and Other), By Region, By Competition, Forecast & Opportunities, 2018-2028F

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Abstracts

Vietnam Fibre Optic Components Market was valued at USD 583.17 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 9.21% through 2028. The Vietnam fiber optic components market is experiencing a profound transformation and unprecedented growth, fueled by a confluence of factors that underscore the country's ascent as a digital powerhouse in Southeast Asia. This dynamic industry has become a linchpin of Vietnam's technological infrastructure, driven by a burgeoning demand for high-speed internet connectivity, data transmission, and the rapid expansion of telecommunications networks. One of the primary catalysts for the burgeoning fiber optic components market in Vietnam is the insatiable demand for high-speed internet access. In an increasingly digitized world, where e-commerce, video streaming, cloud-based services, and remote work are becoming the norm, the need for faster and more reliable internet connections has never been more pronounced. Fiber optic technology, characterized by its exceptional data transfer speeds and reliability compared to traditional copper-based networks, has emerged as the quintessential solution to meet this surging demand. In Vietnam, where the population is increasingly tech-savvy and digitally connected, the appetite for high-speed broadband access is insatiable, placing fiber optic components at the forefront of

the nation's technological evolution.

Telecommunications companies in Vietnam are aggressively pushing the envelope by expanding their fiber optic networks to cater to the escalating demand for connectivity. The advent of 5G technology is a pivotal force propelling the growth of the fiber optic components market. With 5G's promise of ultra-fast, low-latency connections, it relies heavily on fiber optics for backhaul and fronthaul connections. As such, telecom operators are making substantial investments in upgrading their networks with advanced fiber optic components. This strategic shift towards 5G infrastructure is poised to create a wealth of new opportunities for fiber optic component manufacturers and suppliers in Vietnam.

Furthermore, the Vietnamese government's unwavering commitment to fostering a digital economy is manifesting through a myriad of initiatives aimed at bolstering the nation's digital infrastructure. Key among these is the 'National Digital Transformation Program' and the 'Fiber Optic Infrastructure Development Plan.' These initiatives are designed to extend broadband access to even the most remote and underserved regions, leveling the digital playing field and ensuring that all citizens have equitable access to digital services. Consequently, the demand for fiber optic components is no longer confined to urban centers but extends across the breadth of Vietnam, making it a nationwide phenomenon that permeates every corner of the country. The competitive landscape of the Vietnam fiber optic components market is characterized by a diverse mix of domestic and international players. Local companies, with their intimate knowledge of the domestic market and strong government support, are striving to secure their positions in the industry. Simultaneously, multinational corporations are leveraging their technological prowess and innovative solutions to provide cutting-edge fiber optic offerings. This robust competition is fostering an environment of continuous innovation and improvements in quality, benefiting both service providers and end-users alike.

In conclusion, the Vietnam fiber optic components market is not just experiencing growth; it is undergoing a seismic shift that is reshaping the country's technological landscape. As Vietnam marches resolutely toward becoming a digital leader in Southeast Asia, the fiber optic components market is undoubtedly a pivotal force driving this transformation. With a harmonious blend of local expertise and international innovation, the market is poised for sustained expansion, making it an exciting and promising sector for investors, businesses, and stakeholders alike. As the nation continues to evolve into a digital powerhouse, the role of fiber optic components in underpinning this transformation cannot be overstated, solidifying its status as a linchpin

of Vietnam's digital future.

Key Market Drivers

Expanding Digital Infrastructure and Connectivity Needs

The Vietnam fiber optic components market is witnessing an unprecedented surge in demand, primarily driven by the rapid expansion of the country's digital infrastructure and the increasing need for enhanced connectivity. Vietnam's digital transformation journey has accelerated in recent years, and as a result, the demand for fiber optic components has reached new heights. One of the key market drivers is the Vietnamese government's proactive approach to enhancing the nation's digital infrastructure. Initiatives such as the 'National Digital Transformation Program' and the 'Fiber Optic Infrastructure Development Plan' have set the stage for significant investments in broadband and high-speed internet access. These initiatives focus on bridging the digital divide by extending fiber optic networks to underserved and remote regions, thereby ensuring that all citizens have access to digital services. This commitment to nationwide connectivity has created a substantial demand for fiber optic components across the country.

Telecommunications companies in Vietnam are at the forefront of this digital revolution, aggressively expanding their fiber optic networks. Fiber optic technology offers unparalleled data transfer speeds and reliability, making it an indispensable component of modern telecommunications networks. With the rising popularity of online streaming, e-commerce, and cloud-based services, consumers and businesses alike are clamoring for faster and more reliable internet connections. Consequently, fiber optic components such as optical fibers, transceivers, and connectors have become the building blocks of the nation's digital backbone. The advent of 5G technology is another significant driver of the fiber optic components market in Vietnam. 5G networks rely heavily on fiber optics for their backhaul and fronthaul connections, as they require low-latency and high-bandwidth connections to deliver the promised ultra-fast speeds. Telecommunication operators are thus investing heavily in upgrading their networks with advanced fiber optic components to meet the demands of this new era in wireless communication. This strategic shift toward 5G is expected to create substantial growth opportunities for fiber optic component manufacturers and suppliers.

Surging Demand for High-Speed Internet Access

The surging demand for high-speed internet access is a dominant driver behind the

thriving Vietnam fiber optic components market. In an increasingly digital world where remote work, e-learning, online entertainment, and cloud-based applications have become the norm, having robust and reliable internet connectivity is imperative. Fiber optic technology has emerged as the solution of choice to meet these growing demands. Vietnam's young and tech-savvy population, coupled with a burgeoning middle class, has contributed significantly to the rise in data consumption. The appetite for high-speed broadband access has led to a rapid expansion of fiber optic networks across urban centers. Fiber optic components, including optical fibers, transceivers, and connectors, play a pivotal role in delivering the bandwidth required to sustain this digital revolution.

The COVID-19 pandemic further accelerated the need for high-speed internet access as remote work and online education became the norm. This paradigm shift in work and education dynamics underscored the critical importance of robust internet infrastructure. Fiber optic components enable not only faster data transfer but also low latency, making them essential for seamless video conferencing, data sharing, and online collaboration. Telecommunications companies in Vietnam have been quick to respond to this growing demand by aggressively investing in the expansion and modernization of their fiber optic networks. They recognize that the quality of internet connectivity directly impacts customer satisfaction and competitiveness. Fiber optic networks not only provide higher speeds but also greater reliability, making them an ideal choice for meeting the connectivity needs of both urban and rural areas.

Furthermore, the Vietnamese government has been actively promoting digitalization, and this has translated into substantial investments in improving digital infrastructure, including fiber optic networks. Initiatives like the 'National Digital Transformation Program' and the 'Fiber Optic Infrastructure Development Plan' aim to extend broadband access to underserved regions, ensuring equitable access to digital services across the country. This nationwide commitment to connectivity continues to drive the demand for fiber optic components.

Expansion of 5G Networks

The expansion of 5G networks is a major driving force behind the growth of the Vietnam fiber optic components market. 5G technology promises unparalleled connectivity, low latency, and the ability to support a wide range of applications, from autonomous vehicles to the Internet of Things (IoT). Fiber optic components are integral to the success of 5G networks, as they provide the high-speed, low latency backhaul and fronthaul connections necessary for 5G's optimal performance. Telecommunications

operators in Vietnam are in a race to deploy 5G networks to meet the demands of a digitally connected society. These networks require a robust and high-capacity infrastructure to handle the massive data traffic generated by 5G devices and applications. Fiber optic components, such as optical fibers, transceivers, and connectors, are essential components of this infrastructure, enabling the rapid and reliable transmission of data.

5G's potential extends far beyond enhanced mobile broadband; it includes transformative applications in sectors like healthcare, smart cities, and manufacturing. For example, telemedicine relies on low-latency, high-bandwidth connections to support real-time medical consultations and remote surgeries. Smart cities require advanced sensors and IoT devices, all of which generate vast amounts of data that need to be transmitted efficiently. Fiber optic components underpin the backbone of these innovations, making them indispensable in the 5G era. The strategic importance of 5G to the Vietnamese economy has led to significant investments in network upgrades. Telecommunications companies are modernizing their infrastructure with fiber optic components to ensure they can deliver on the promises of 5G technology. Moreover, the proliferation of 5G will also spur further demand for fiber optic components as more devices and applications leverage the benefits of this next-generation wireless technology.

Government Initiatives and Digital Transformation

Government initiatives and the broader digital transformation agenda in Vietnam are powerful drivers behind the flourishing fiber optic components market. The Vietnamese government has shown a strong commitment to accelerating the nation's digitalization, recognizing that a robust digital infrastructure is essential for economic growth and competitiveness. The 'National Digital Transformation Program' is a key initiative aimed at facilitating the adoption of digital technologies across various sectors of the economy. This program encompasses the modernization of digital infrastructure, including the expansion of fiber optic networks. The goal is to create a digitally inclusive society where citizens have equal access to digital services and opportunities. As a result, there has been a substantial push to extend fiber optic connectivity to remote and underserved regions, reducing the digital divide and boosting economic development in these areas.

The 'Fiber Optic Infrastructure Development Plan' is another government-led effort focused specifically on expanding the reach of fiber optic networks. This plan involves substantial investments in the deployment of fiber optic cables, particularly in rural and

remote areas. By improving connectivity in these regions, the government aims to unlock new opportunities for education, healthcare, e-commerce, and agriculture, among other sectors, driving the demand for fiber optic components. Furthermore, the Vietnamese government is fostering an environment conducive to digital innovation and entrepreneurship. This includes support for startups and technology companies, which often rely on robust internet connectivity to develop and scale their products and services. Fiber optic components play a critical role in providing the high-speed and low-latency connections required by these innovative ventures.

Key Market Challenges

Infrastructure Expansion and Deployment Hurdles

While the Vietnam fiber optic components market is experiencing significant growth, it also faces several notable challenges, with infrastructure expansion and deployment hurdles at the forefront. The demand for high-speed internet and digital services is on the rise, driven by factors such as remote work, 5G networks, and government initiatives. However, expanding and deploying the necessary infrastructure to meet this demand is not without its challenges. One of the primary challenges in Vietnam is the geographical diversity of the country. Vietnam's terrain includes densely populated urban areas, remote rural regions, and mountainous landscapes. Extending fiber optic networks to these varied locations presents logistical challenges and requires significant investment. Building infrastructure in mountainous areas can be particularly challenging due to the need for rugged terrain equipment, specialized installation techniques, and access difficulties.

Moreover, the cost of deploying fiber optic networks can be substantial, especially when considering the last-mile connections needed to reach individual homes and businesses. This cost challenge is exacerbated in rural and underserved areas, where population density is lower, and the return on investment may take longer to realize. As a result, some areas may face delays in receiving high-speed internet access. Another hurdle is the need for regulatory approvals and permits for network deployment. Obtaining the necessary permissions to lay fiber optic cables can be time-consuming and bureaucratic, especially when multiple government agencies are involved. Delays in securing approvals can slow down network expansion efforts and hinder the market's ability to meet growing demands promptly. The shortage of skilled labor and expertise in fiber optic network deployment is another pressing challenge. While the demand for high-quality fiber optic components is increasing, there is a need for a workforce with the necessary technical knowledge and skills to install, maintain, and repair these

networks. Training and developing a skilled workforce are crucial to ensuring the successful expansion of fiber optic infrastructure in Vietnam.

Competitive Pricing and Profit Margins

Competitive pricing and profit margins are significant challenges in the Vietnam fiber optic components market. While the demand for fiber optic components is growing rapidly, market players must navigate several factors that impact pricing strategies and profit margins. One of the key challenges is the pressure to offer competitive pricing to gain or maintain market share. With multiple domestic and international manufacturers and suppliers in the market, there is intense competition, which often results in price wars. This competitive environment can put downward pressure on prices and limit profit margins, making it challenging for companies to sustain profitability while meeting the demands of cost-conscious customers. Additionally, the global supply chain dynamics can influence pricing in the Vietnam fiber optic components market. Many of the critical raw materials and components used in manufacturing fiber optic products are sourced internationally. Fluctuations in currency exchange rates, trade policies, and supply chain disruptions can impact the cost of these inputs, making it difficult for companies to maintain stable pricing and profit margins. accordingly.

Key Market Trends

Increasing Demand for High-Bandwidth Applications

The Vietnam fiber optic components market is experiencing a notable trend driven by the increasing demand for high-bandwidth applications. As digitalization continues to permeate every aspect of modern life, from remote work and online education to streaming media and IoT devices, the need for robust and high-capacity internet connectivity has become paramount. Fiber optic technology, with its ability to transmit vast amounts of data at high speeds, is at the forefront of meeting these evolving demands. One of the most prominent drivers of this trend is the rise in remote work and virtual collaboration. The COVID-19 pandemic accelerated the adoption of remote work, forcing individuals and businesses to rely on video conferencing, cloud-based applications, and collaborative tools. To support seamless remote work, there is an increased reliance on high-quality video streaming, real-time data sharing, and low-latency communication, all of which are made possible through fiber optic networks and components.

In addition to remote work, online education has also surged in popularity, necessitating

stable and high-speed internet connections for virtual classrooms and interactive learning platforms. Fiber optic components are instrumental in ensuring that students and educators have access to reliable and uninterrupted online learning experiences. The entertainment industry is another significant driver of high-bandwidth application demand. With the proliferation of streaming services and the increasing availability of high-definition and 4K content, consumers expect buffer-free and high-quality streaming experiences. Fiber optic networks, with their superior data transfer capabilities, are essential for delivering this content seamlessly to homes and mobile devices. Furthermore, the Internet of Things (IoT) has gained traction in Vietnam, with various applications ranging from smart homes and smart cities to industrial automation and agriculture. IoT devices generate massive amounts of data that require efficient transmission and processing. Fiber optic components play a crucial role in enabling the high-speed, low-latency connections needed to support the growing ecosystem of interconnected devices.

Growing Investments in Network Infrastructure

A prominent trend in the Vietnam fiber optic components market is the growing investments in network infrastructure. To keep pace with the surging demand for high-speed internet, digital services, and emerging technologies like 5G, telecommunications companies and internet service providers are heavily investing in expanding and modernizing their networks. This trend is reshaping the landscape of the fiber optic components market in the country. Telecommunications companies are racing to deploy 5G networks in urban centers and key metropolitan areas to provide ultra-fast, low-latency connectivity. 5G relies heavily on fiber optic technology for both backhaul and fronthaul connections. As a result, significant investments are being made in upgrading existing fiber optic networks and deploying new ones to support 5G infrastructure. This presents a substantial growth opportunity for fiber optic component manufacturers and suppliers who are essential partners in this network expansion.

The Vietnamese government's commitment to enhancing digital infrastructure is another driving force behind increased investments in network infrastructure. Initiatives such as the 'Fiber Optic Infrastructure Development Plan' aim to extend broadband access to rural and remote areas, ensuring that even the most underserved regions have access to high-speed internet. This ambitious agenda requires substantial investments in laying fiber optic cables and deploying network equipment, further fueling demand for fiber optic components. Moreover, the transition to fiber-to-the-home (FTTH) and fiber-to-the-premises (FTTP) connectivity is gaining momentum in Vietnam. FTTH and FTTP deployments provide direct fiber optic connections to homes and businesses, delivering

the highest possible internet speeds and reliability. This trend is driving increased investments in last-mile connectivity, including the installation of optical network terminals (ONTs) and customer premises equipment (CPEs), all of which rely on fiber optic components for optimal performance.

In summary, the growing investments in network infrastructure, driven by the deployment of 5G, government initiatives, and the shift toward FTTH and FTTP connectivity, are key trends in the Vietnam fiber optic components market. These investments are propelling the demand for high-quality fiber optic components, positioning the market for sustained growth in the coming years.

Adoption of Advanced Fiber Optic Technologies

The Vietnam fiber optic components market is witnessing a trend characterized by the increasing adoption of advanced fiber optic technologies. As the demand for higher bandwidth, faster speeds, and greater reliability intensifies, businesses and service providers are seeking cutting-edge solutions to meet these requirements. This trend is reshaping the landscape of the fiber optic components market in Vietnam. One of the notable advancements in fiber optic technology is the deployment of dense wavelength division multiplexing (DWDM) systems. DWDM technology allows multiple data signals of different wavelengths to be transmitted simultaneously over a single optical fiber. This results in a significant increase in bandwidth, capacity and efficiency.

Telecommunications companies and data centers in Vietnam are increasingly embracing DWDM solutions to accommodate the growing data traffic driven by high-bandwidth applications.

Another significant trend is the adoption of advanced optical transceivers, including coherent transceivers. Coherent transceivers use advanced modulation formats and signal processing techniques to enable higher data rates and longer transmission distances. They are becoming essential components for long-haul and high-capacity optical networks, particularly as 5G deployments and data center interconnects require increasingly higher speeds and performance. The deployment of all-optical networks is also gaining traction in Vietnam. All-optical networks utilize optical switches and routers to transmit data entirely in the optical domain, eliminating the need for electrical-to-optical conversions. This trend improves network efficiency, reduces latency, and enhances overall performance. It is particularly relevant in data centers, where high-speed data transmission is critical for cloud computing and storage applications. Moreover, the adoption of advanced fiber optic testing and monitoring solutions is on the rise. As network complexity increases, operators require sophisticated tools to

ensure the reliability and performance of their optical networks. Advanced testing equipment and optical network monitoring solutions help identify and address issues proactively, minimizing downtime and service disruptions.

Segmental Insights

Data Rate Insights

Based on data rate, the 10G segment has established its dominance in the Vietnam fibre optic components market in 2022 and is projected to maintain this position throughout the forecast period. The prominence of the 10G segment can be attributed to the ever-increasing demand for higher data rates in the digital age. With the proliferation of data-intensive applications, such as high-definition video streaming, cloud computing, and 5G networks, businesses and consumers alike are seeking faster and more reliable internet connectivity. The 10G segment, which provides data rates of 10 gigabits per second, offers a substantial leap in bandwidth compared to previous generations. This makes it the preferred choice for meeting the surging demands of data-hungry applications and services. As Vietnam continues its digital transformation journey, the 10G segment's dominance signifies its pivotal role in delivering the high-speed connectivity required to fuel the nation's burgeoning digital economy, making it a key driver of growth in the fiber optic components market.

Application Insights

Based on application, the communication segment in Vietnam fibre optic components market is expected to register fastest growth during the forecast period. This acceleration is driven by several factors that highlight the critical role of fiber optics in modern communication networks. As Vietnam continues its rapid digitalization, the demand for high-speed, reliable, and low-latency communication solutions is on the rise. The communication sector encompasses a wide range of applications, including telecommunication networks, data centers, and enterprise communications. The deployment of 5G networks, expansion of broadband internet services, and the increasing need for seamless connectivity in remote work and e-learning environments all contribute to the robust growth of fiber optic components in the communication segment. Additionally, the government's initiatives to enhance digital infrastructure and bridge the digital divide further amplify the demand for advanced fiber optic communication solutions. This trend underscores the pivotal role that fiber optics play in transforming and advancing communication capabilities in Vietnam, making it a key driver of growth in the fiber optic components market.

Regional Insights

The Northern Vietnam has established itself as the leader in the Vietnam fibre optic components market with a significant revenue share in 2022. This dominance is a testament to the region's pivotal role in driving the country's digital transformation and technological progress. Northern Vietnam, with Hanoi as its centerpiece, has rapidly evolved into a thriving technological and industrial hub. The region's strong economic presence, coupled with its status as the political and administrative capital, has propelled extensive investments in telecommunications infrastructure, data centers, and high-speed internet access. This robust ecosystem has not only attracted major players in the tech industry but has also fostered a culture of innovation and digital entrepreneurship. As a result, Northern Vietnam stands at the forefront of the fiber optic components market, playing a crucial role in shaping the nation's technological landscape and contributing significantly to its digital economy's continued growth and success.

Key Market Players

Furukawa Electric Vietnam Company Limited

Corning Optical Communications Vietnam Limited Liability Company

Sumitomo Electric Vietnam Company Limited

Prysmian Group Vietnam Limited Liability Company

Nexans Vietnam Limited Liability Company

AFL Global Corporation Vietnam Limited Liability Company

Leoni Vietnam Limited Liability Company

Belden Vietnam Limited Liability Company

3M Vietnam Limited Liability Company

CommScope, Inc. Vietnam Limited Liability Company

Report Scope:

In this report, the Vietnam Fibre Optic Components market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vietnam Fibre Optic Components Market, By Type:

Cables

Splitters

Active Optical Cables

Transceivers

Amplifiers

Circulators

Connectors

Others

Vietnam Fibre Optic Components Market, By Data Rate:

10G

40G

100G

Above 100G

Vietnam Fibre Optic Components Market, By Application:

Distributed Sensing

Analytical & Medical Equipment

Lighting

Communication

Other

Vietnam Fibre Optic Components Market, By Region:

Northern Vietnam

Southern Vietnam

Central Vietnam

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam Fibre Optic Components Market.

Available Customizations:

Vietnam Fibre Optic Components market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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