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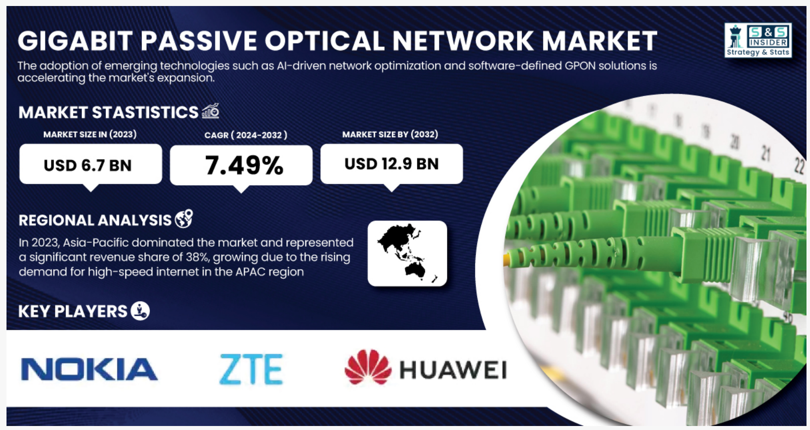
Gigabit Passive Optical Network Market Size to Surpass USD 12.9 Billion by 2032 | SNS Insider

The Gigabit Passive Optical Network Market is expanding rapidly due to rising demand for high-speed broadband and technologies like 5G, AI, and cloud.

AUSTIN, TX, UNITED STATES, February 14, 2025 /EINPresswire.com/ -- The Gigabit Passive Optical Network Market size was USD 6.7 Billion in 2023 and is expected to reach USD 12.9 Billion by 2032, growing at a CAGR of 7.49% over the forecast period of 2024-2032.



Gigabit-Passive-Optical-Network-Market

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Keyplayers:
Huawei Technologies – MA5800 GPON OLT
ZTE Corporation – ZXA10 C300 GPON OLT
Nokia Corporation – 7360 ISAM FX GPON
FiberHome Telecommunication Technologies Co. Ltd. – AN6000 GPON OLT
Calix Inc. – GigaCenter GPON
Cisco Systems, Inc. – ASR 9000 Series Aggregation Services Routers
Palo Alto Networks, Inc. – GPON Security Gateway
Adtran, Inc. – Total Access 5000 GPON OLT
Juniper Networks, Inc. – MX Series 3D Universal Edge Routers (GPON support)
Vertiv Co. – Liebert EXM2 (used in GPON backhaul)
Tellabs, Inc. – Tellabs 8600 GPON Series
Mitsubishi Electric Corporation – MELCO GPON OLT
Samsung Electronics Co., Ltd. – Samsung GPON OLT
Marconi Communications Ltd. – GPON OLT Systems
NEC Corporation – GPON OLT solutions
Prysmian Group – Fiber Optic Cables for GPON networks
Dasan Zhone Solutions – GX Series GPON OLT

Arris International – E6000 CER (GPON support)
Tatung Company – GPON ONU (Optical Network Units)
AFL Telecommunications – GPON Network Solutions

By Component, Product Segment Dominates GPON Market, While Service Segment Shows Strong Growth Potential
The product segment held a dominant share of 60% in 2023, It is driven mainly by demand for optical line terminals (OLTs), optical network units (ONUs), and optical splitters. These are products that are pretty much used in deploying high-speed broadband infrastructure, which has been triggered by video streaming, remote work, and telemedicine applications.

The Service segment, however, is expected to witness the highest growth during the forecast period due to the rising complexity of GPON system deployments and the need for specialized services like network management, troubleshooting, and ongoing hardware and software upgrades.
By Application, FTTH Leads GPON Market, While Mobile Backhaul Set for Rapid Growth
The Fiber to The Home (FTTH) segment dominated the market with a 46% share in 2023. This is an increased demand for high-speed Internet connectivity for both business and household use. FTTH uses dedicated fiber-optic links directly to homes or businesses, thereby ensuring that the user gets superior speed and capacity. Governments around the world support FTTH deployment through efforts to make broadband more accessible, particularly in less-developed areas.

The Mobile Backhaul segment, driven by the growing demand for 5G networks, is expected to experience the highest compound annual growth rate (CAGR), as it requires high-capacity solutions like GPON for seamless connectivity.

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By Technology, 2.5 GPON Dominates Market, While NG-PON2 Poised for Rapid Growth
The 2.5 GPON segment dominated the market in 2023, owing to its wide application in fiber-to-the-home and fiber-to-the-building applications. Even though newer technologies have been developed, 2.5 GPON remains a key solution for delivering gigabit-speed broadband to homes and small businesses.
The NG-PON2 segment, capable of speeds up to 40 Gbps, is poised to experience the fastest growth due to its applicability in enterprise and smart city deployments, as well as its role in supporting 5G and cloud applications.

By End-Use, IT & Telecom Leads GPON Market, While Healthcare Shows Fastest Growth
The IT & Telecom sector is the largest end-use segment in the GPON market, as telecom providers and data centers are upgrading their networks to meet the increasing demand for high-speed internet and robust connectivity.

The Healthcare segment, however, is expected to experience the fastest growth, driven by the increasing need for high-speed, secure data transfer in hospitals, clinics, and research institutions. The rise of telemedicine and digital health solutions is further fueling this demand.
By region, Asia-Pacific Dominates the Market, While North America is Set for the Fastest Growth.

In 2023, Asia-Pacific dominated the Gigabit Passive Optical Network (GPON) market, holding a significant revenue share of 38%. This can be attributed to the fact that there is an increasing need for high-speed internet in China, India, Japan, and South Korea. There are government-led initiatives towards broadband penetration, and nations in the region have made significant strides in implementing FTTH and GPON infrastructure. The barriers in both urban and rural areas in terms of accessing high-speed internet are being addressed.

North America is expected to register the highest CAGR during the forecast period, driven by the continued deployment of fiber-optic networks and the roll-out of 5G infrastructure. Both public and private sectors in the United States and Canada are heavily investing in next-generation broadband technologies, which are expected to enhance internet speeds and coverage across the region.

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Jagney Dave
SNS Insider Pvt. Ltd
+1 315 636 4242
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