

GPON Equipment Market Report by Equipment Type (Optical Line Terminal (OLT), Optical Network Terminal (ONT)), End User (Hospitals, Residential, IT and Telecom, and Others), and Region 2024-2032

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Abstracts

The global GPON equipment market size reached US\$ 20.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 64.5 Billion by 2032, exhibiting a growth rate (CAGR) of 13.6% during 2024-2032.

Gigabit passive optical networks (GPON) equipment is a point-to-multipoint access network that is used to connect the optical distribution network (ODN). It consists of a splitter, optical line terminals (OLT) and optical network unit (ONU). The OLT injects the photons through the central office to a fiber-optic cable manufactured of plastic and glass, whereas the splitter divides the single signal from the central office into numerous signals. GPON equipment assists in low maintenance requirements, easier network management, enhancing security, speed and stability, and reducing the cost of physical equipment in the fiber distribution network. As compared to ethernet passive optical network (EPON), GPON can be used for upstream and downstream data as they offer better bandwidth. As a result, it finds extensive application across the healthcare, information technology (IT) and energy industries.

GPON Equipment Market Trends:

The availability of easy internet connectivity across the globe is creating a positive outlook for the market growth. GPON technologies are widely adopted in high internet-driven applications, such as high-definition television (HDTV), Distributed antenna systems (DAS) and security systems. In line with this, the proliferation of smartphones and the increasing number of connected devices with higher bandwidth are favoring the market growth. Moreover, various technological advancements, such as the introduction

of a fifth generation (5G) network, fiber to the home (FTTH) and fiber to the premises (FTTP) that provide network immunity against electromagnetic interfering and high-speed data to the consumers, are providing an impetus to the market growth. Additionally, the increasing product demand in the healthcare industry to support mission-critical networks and access high-resolution images and patient medical information is positively impacting the market growth. Other factors, including the development of smart cities and the rising demand for mobile backhaul systems, are anticipated to drive the market further toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global GPON equipment market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on equipment type and end user.

Breakup by Equipment Type:

- Optical Line Terminal (OLT)
- Optical Network Terminal (ONT)

Breakup by End User:

- Hospitals
- Residential
- IT and Telecom
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ADTRAN Inc., Allied Telesis Inc., Calix Inc., DZS, Huawei Technologies Co. Ltd., Mitsubishi Electric Corporation, NEC Corporation, Nokia Corporation, Tejas Networks, Telefonaktiebolaget LM Ericsson and ZTE Corporation.

Key Questions Answered in This Report

1. What was the size of the global GPON equipment market in 2023?
2. What is the expected growth rate of the global GPON equipment market during 2024-2032?
3. What are the key factors driving the global GPON equipment market?
4. What has been the impact of COVID-19 on the global GPON equipment market?
5. What is the breakup of the global GPON equipment market based on the equipment type?
6. What is the breakup of the global GPON equipment market based on the end user?
7. What are the key regions in the global GPON equipment market?
8. Who are the key players/companies in the global GPON equipment market?

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