

Global Optical Network Monitoring Software Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Optical Network Monitoring Software market size was valued at US\$ 3344 million in 2025 and is forecast to a readjusted size of US\$ 6056 million by 2032 with a CAGR of 8.7% during review period.

Fiber Optic Network Monitoring Software refers to monitoring, assurance and management platforms used by telecom operators, broadband providers, data center interconnect operators, enterprise private networks, backbone networks, metro networks, access networks, PON/FTTx networks, dark fiber providers, campus fiber networks and critical infrastructure fiber owners. These platforms use remote OTDR, optical power monitoring, PON/OLT/ONT telemetry, WDM/OTN performance data, alarm correlation, GIS-based fiber inventory, topology mapping, fault localization, SLA management, ticketing integration, digital twins and automation to monitor fiber health, attenuation changes, fiber cuts, bends, splice degradation, optical module performance, wavelength/channel status, PON branch faults, dark fiber availability and network resource utilization. Their core purpose is to improve visibility, reduce mean time to repair, protect SLAs, support large-scale fiber expansion and enable proactive fiber operations.

Based on our research, fiber optic network monitoring software should be understood as a combined market of physical fiber health monitoring, optical-layer assurance, network resource management, fault localization and automated operations. It is not the same as generic IT network monitoring. While conventional network monitoring often focuses on device availability, interface traffic and IP-layer alarms, fiber network monitoring must address fiber cuts, attenuation changes, bends, splice degradation,

PON branch faults, wavelength/channel performance, cable routes and fiber-core inventory. As FTTH, PON, dark fiber, data center interconnect and critical-infrastructure fiber networks expand, operators need more proactive tools than manual testing and reactive repair. From a supply-side perspective, the market is shaped by four vendor groups. Remote fiber testing and physical-layer monitoring specialists, such as VIAVI, EXFO and Adtran, focus on OTDR-based monitoring, remote fiber test systems, fiber health and precise fault localization. Optical networking vendors, such as Nokia, Huawei, Ciena, Cisco, Ribbon, Ekinops, PacketLight and ZTE, focus on WDM, OTN, PON and optical transport telemetry, performance management and automation. Fiber inventory and GIS software providers, such as IQGeo, 3-GIS, VETRO, FNT and Esri, manage cables, ducts, fiber cores, splicing, routes and operational workflows. Distributed fiber sensing vendors, such as AP Sensing, Silixa, Bandweaver and FiberSense, use fiber as a continuous sensing medium for infrastructure security and event detection. From the demand side, backbone and metro networks require optical performance visibility, wavelength resource management and faster restoration; PON and FTTx access networks require user-side fault localization and scalable field-service support; dark fiber and wholesale networks need SLA assurance and customer-level fault evidence; data center interconnect networks require high-capacity, low-latency continuity; and utility, railway, power and government networks prioritize fiber-route resilience and physical security. Because these scenarios differ in data sources, granularity and operational workflows, the market is unlikely to be served by one single software type. Instead, the competitive structure will increasingly depend on integration across RFTM, optical NMS, GIS inventory, OSS workflows and fiber sensing platforms. From a technology roadmap perspective, the market is shifting from reactive fault testing toward continuous monitoring, predictive maintenance and closed-loop automation. Remote OTDR and optical power monitoring help operators separate fiber plant issues from active equipment problems. AI and big data are being used to analyze fiber and channel health trends. SDN optical controllers and network automation platforms are moving optical provisioning and restoration closer to closed-loop operations. Distributed fiber sensing expands the role of deployed fiber from a communication medium into an infrastructure sensing layer. Over time, vendors with physical-layer monitoring, accurate inventory data, open APIs, alarm correlation, automation and multi-vendor integration capabilities are likely to gain stronger positions than hardware-only test suppliers or generic network monitoring tools.

This report is a detailed and comprehensive analysis for global Optical Network Monitoring Software market. Both quantitative and qualitative analyses are presented by company, by region & country, by Platform Function and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends,

as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Optical Network Monitoring Software market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Optical Network Monitoring Software market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Optical Network Monitoring Software market size and forecasts, by Platform Function and by Application, in consumption value (\$ Million), 2021-2032

Global Optical Network Monitoring Software market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Optical Network Monitoring Software

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Optical Network Monitoring Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VIAVI Solutions Inc., EXFO Inc., Adtran Holdings, Inc., Nokia Corporation, Huawei Technologies Co., Ltd., Ciena Corporation, Cisco Systems, Inc., Ribbon Communications Inc., Ekinops S.A., PacketLight Networks Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Optical Network Monitoring Software market is split by Platform Function and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Platform Function and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Platform Function

- Physical Fiber Health Monitoring

- Optical Transport Performance Monitoring

- PON and Access Assurance

- Fiber Inventory and Topology Management

- Alarm Correlation and Fault Localization

- Optical Network Automation

Market segment by Network Layer

- Long-haul Backbone Fiber

- Metro and Regional Fiber

- Access and Distribution Fiber

- Enterprise and Campus Fiber

- Subsea and Cross-border Fiber

- Dark Fiber Infrastructure

Market segment by Monitoring Technology

Remote OTDR-based Monitoring

In-service Optical Layer Telemetry

GIS and Inventory-based Monitoring

Distributed Fiber Optic Sensing

AI-based Fault Prediction

SDN-based Optical Control

Market segment by Application

Telecom Backbone and Metro Fiber Monitoring

FTTx and PON Access Network Monitoring

Dark Fiber and Wholesale Fiber Monitoring

Data Center Interconnect Fiber Monitoring

Utility and Critical Infrastructure Fiber Monitoring

Campus and Enterprise Fiber Network Monitoring

Fiber Resource and GIS-based Operations Management

Optical Network Automation and Assurance

Market segment by players, this report covers

VIAMI Solutions Inc.

EXFO Inc.

Adtran Holdings, Inc.

Nokia Corporation

Huawei Technologies Co., Ltd.

Ciena Corporation

Cisco Systems, Inc.

Ribbon Communications Inc.

Ekinops S.A.

PacketLight Networks Ltd.

ZTE Corporation

FiberHome Telecommunication Technologies Co., Ltd.

IQGeo Group plc

3-GIS LLC

VETRO Inc.

FNT GmbH

Esri

AP Sensing GmbH

Silixa Ltd.

Bandweaver Technologies

FiberSense Pty Ltd

Sumitomo Electric Industries, Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Optical Network Monitoring Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Optical Network Monitoring Software, with revenue, gross margin, and global market share of Optical Network Monitoring Software from 2021 to 2026.

Chapter 3, the Optical Network Monitoring Software competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Platform Function and by Application, with consumption value and growth rate by Platform Function, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Optical Network Monitoring Software market forecast, by regions, by Platform Function and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Optical Network Monitoring Software.

Chapter 13, to describe Optical Network Monitoring Software research findings and conclusion.

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