

Global Optical Network Monitoring Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Optical Network Monitoring Software market size is expected to reach \$ 6056 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

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 studies the global Optical Network Monitoring Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Optical Network Monitoring Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand

trends and competition, as well as details the characteristics of Optical Network Monitoring Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Optical Network Monitoring Software total market, 2021-2032, (USD Million)

Global Optical Network Monitoring Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Optical Network Monitoring Software total market, key domestic companies, and share, (USD Million)

Global Optical Network Monitoring Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Optical Network Monitoring Software total market by Platform Function, CAGR, 2021-2032, (USD Million)

Global Optical Network Monitoring Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Optical Network Monitoring Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Platform Function, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Optical Network Monitoring Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Optical Network Monitoring Software Market, Segmentation 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

Global Optical Network Monitoring Software Market, Segmentation 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

Global Optical Network Monitoring Software Market, Segmentation 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

Global Optical Network Monitoring Software Market, Segmentation 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

Companies Profiled:

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.

Key Questions Answered

1. How big is the global Optical Network Monitoring Software market?
2. What is the demand of the global Optical Network Monitoring Software market?
3. What is the year over year growth of the global Optical Network Monitoring Software market?
4. What is the total value of the global Optical Network Monitoring Software market?
5. Who are the Major Players in the global Optical Network Monitoring Software market?
6. What are the growth factors driving the market demand?

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