

Elastic Optical Network Market to Reach USD \$19.12 Billion by 2029 at 16.1% CAGR

The Business Research Company's Elastic Optical Network Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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How Big Is The Elastic Optical Network Market In 2025?

The [market size for the elastic optical network](#) has seen a rapid expansion in the past few years.

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The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034”

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An increase from \$9.05 billion in 2024 to \$10.53 billion in 2025, with a compound annual growth rate (CAGR) of 16.4% is forecasted. Factors contributing to the growth during the historic period include the growing demand for high-speed internet, the expansion of telecommunication infrastructure, the widespread adoption of cloud computing, the rise in digital healthcare services, and increased investments in fiber optics.

Over the coming years, the market size of the elastic optical network is projected to surge exponentially, with

estimates suggesting it will reach \$19.12 billion in 2029, expanding at a compound annual growth rate (CAGR) of 16.1%. The predicted growth in the forecast period could be due to a surge in the deployment of 5g networks, heightened demand for uninterrupted connectivity, an increase in the adoption of cloud services, and a rise in applications requiring significant bandwidth, along with enhanced regulatory backing. Key trends for the forecast period encompass advancements in elastic optical devices technology, the integration of software-defined networking, inventiveness in bandwidth-variable transceivers, strides in the development of scalable network architectures, and progress in techniques for spectrum slicing.

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What Are The Key Driving Factors For The Growth Of The Elastic Optical Network Market?

The anticipated expansion of the elastic optical network market is propelled by the increasing necessity for high-speed internet access. Broadband network connections that allow swift data transmission underpinning activities such as streaming, video conferencing, and cloud computing are what this high-speed internet access denotes. The expanding digital connectivity, propelled by the growth of online users and applications that consume considerable data, mainly fuels the need for high-speed internet access. Elastic optical networks satisfy this need by offering scalable, adaptable, and high-capacity fiber-optic infrastructure capable of dynamically adjusting bandwidth based on altering user requirements. To illustrate, data from the Office of Communications (Ofcom) – a UK-based communications regulatory body, revealed that by December 2024, 69% of UK households (or roughly 20.7 million homes) have full-fiber broadband, reflecting a significant rise from the 57% (17.1 million homes) in September 2023. Consequently, the rising need for high-speed internet access fuels the expansion of the elastic optical network market.

Who Are The Key Players In The Elastic Optical Network Industry?

Major players in the Elastic Optical Network Global Market Report 2025 include:

- Huawei Technologies Co. Ltd.
- Cisco Systems Inc.
- Fujitsu Limited
- NEC Corporation
- Nokia Corporation
- Telefonaktiebolaget LM Ericsson
- ZTE Corporation
- Corning Incorporated
- Furukawa Electric Co. Ltd.
- Juniper Networks Inc.

What Are The Top Trends In The Elastic Optical Network Industry?

Major corporations in the elastic optical network sector are leveraging advancements in technology such as high-capacity coherent optical transceiver engines to bolster network flexibility, optimize spectral efficiency, and cater to the escalating demand for high-speed data transmission with growing bandwidth needs. High-capacity coherent optical transceiver engines are revolutionary optical modules that transport data over fibre networks at extraordinarily high speeds, utilizing coherent detection and flexible modulation to boost bandwidth and spectral efficiency. For instance, Infinera Corporation, a telecommunications equipment organization based in the US, announced the launch of its 1.2-Tbps ICE7 optical engine in March 2023. The ICE7 offers programmable operation with integration into existing systems through open APIs, facilitating 800G transmission over 3,000 kilometres, and reducing cost per bit by up to 30% and power per bit by 60% in comparison to previous solutions. Additional functionalities include

compatibility with super C- and super L-band operation, providing up to 12 THz of usable spectrum and significant capacity enlargement.

What [Segments Are Covered In The Elastic Optical Network](#) Market Report?

The elastic optical network market covered in this report is segmented as

- 1) By Component: Hardware, Software, Services
- 2) By Technology: Wavelength Division Multiplexing, Optical Transport Network, Optical Add-Drop Multiplexer, Other Technologies
- 3) By Application: Data Centre, Metropolitan Network, Long Haul, Cloud Computing, Other Applications
- 4) By End-User: Telecommunication, Information Technology (IT) And Data Centres, Banking Finance Services And Insurances (BFSI), Healthcare, Government, Other End-Users

Subsegment:

- 1) By Hardware: Optical Transceivers, Reconfigurable Optical Add-Drop Multiplexers (ROADMs), Optical Amplifiers, Optical Switches, Network Interface Cards (NICs)
- 2) By Software: Network Management Software, Network Orchestration Software, Software-Defined Networking (SDN) Controllers, Performance Monitoring And Analytics Software
- 3) By Services: Consulting And System Integration, Network Design And Planning, Installation And Deployment, Maintenance And Support, Managed Services

View the full elastic optical network market report:

<https://www.thebusinessresearchcompany.com/report/elastic-optical-network-global-market-report>

Which Region Is Expected To Lead The Elastic Optical Network Market By 2025?

The Elastic Optical Network Global Market Report 2025 identifies North America as the leading region in 2024. It also predicts that Asia-Pacific will experience the most rapid growth during the forecast period. The report considers several geographical areas, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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