

## Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market is Projected to Increase

Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, October 29, 2025 /EINPresswire.com/ -- What Is The Projected Market Size & Growth Rate



Of The Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market?

The market size for the open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder has witnessed significant expansion in recent years. It is projected to expand from



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\$1.28 billion in 2024 to \$1.53 billion in 2025, indicating a compound annual growth rate (CAGR) of 19.1%. This growth during the historical period is linked to the escalating demand for wavelength division multiplexing systems, increased internet penetration in developed economies, escalating usage of video streaming and digital services, a spike in the deployment of enterprise-wide area networks, an upswing in the installation of submarine communication cables, and growing necessity for cross-border data traffic.

The market size for open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder is anticipated to experience accelerated evolution in the subsequent years. The market is predicted to augment to \$3.03 billion in 2029 with a compound annual growth rate (CAGR) of 18.7%. This progress in the forecast period is credited to the escalating demand for rollouts of the 5G network, amplified investments in hyperscale data centers, and extensive expansion of the fiber optic structure in emerging territories. There is also a marked rise in the adoption of cloud computing services, a notable preference for software-defined networking integration and a need for expanded bandwidth for artificial intelligence workloads.

Predominant trends in the forecast period involve the enhancement of photonic integration technologies, evolution of colorless directionless contentionless architectures, creative advancements in optical performance monitoring modules, increased investment towards research and development of silicon photonics, amalgamation of software-defined network control with optical transport, along with advancements in energy-efficient optical components.

Download a free sample of the open reconfigurable <u>optical add-drop multiplexer (roadm)</u> <u>packet-transponder market report:</u> https://www.thebusinessresearchcompany.com/sample.aspx?id=28743&type=smp

What Is The Crucial Factor Driving The Global Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market?

5G network proliferation is predicted to drive forward the open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder market. This entails execution and establishment of the fifth-generation cellular network systems, which offer superior and faster connection facilities along with reduced delay periods. The increase in 5G network deployment is influenced by rising demand for high-frequency connectivity, along with digital transformation efforts. Telco operators worldwide are investing massively to upgrade their network infrastructure to accommodate advanced applications and services. By providing adjustable, wide-bandwidth wavelength routing and dynamic bandwidth distribution, open reconfigurable optical add-drop multiplexer (ROADM) packet transponders enhance the performance of 5G networks. They accommodate ultra-low latency and high-speed data transfer, which is efficient for dense 5G deployments and increasing traffic. For example, in May 2025, Sweden-based telco company Ericsson projected that 5G mobile subscriptions would increase from 1.62 billion in 2023 to 6.29 billion by 2030. Therefore, the continued implementation of 5G networks is fuelling the growth of the open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder market.

Who Are The Emerging Players In The Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market?

Major players in the Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Global Market Report 2025 include:

- Huawei Technologies Co. Ltd.
- NTT Ltd.
- Cisco Systems Inc.
- Sumitomo Electric Industries Ltd.
- Mitsubishi Electric Corporation
- Fujitsu Limited
- NEC Corporation
- Nokia Corporation
- ZTE Corporation
- Ciena Corporation

What Are The Top Trends In The Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Industry?

Key players in the open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder market are zeroing in on creating innovative solutions like wavelength-selective switch (WSS) technology-based ROADM to aid dynamic provisioning in high-capacity optical transport systems. The WSS technology-based ROADM facilitates the dynamic addition, removal, or rerouting of individual wavelengths without the need for electrical conversion, providing flexible, scalable, and efficient bandwidth management for responsive high-capacity networks. For example, in March 2024, Smartoptics, an optical networking company based in Norway, introduced the DCP-R-34D-CS, a compact 1 rack unit (RU) ROADM product that incorporates the advanced flex-grid wavelength-selective switch (WSS) technology. This product empowers operators to deliver increased data rates, improve fiber usage, and expand metro and regional networks more efficiently. The DCP-R-34D-CS is designed with flexible spectrum management, a compact deployment form factor, and software-driven configurability to help operators enhance network performance, simplify operations, and reduce the overall cost of ownership.

What Segments Are Covered In The Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market Report?

The open reconfigurable optical add-drop multiplexer (ROADM) packet-transponder market covered in this report is segmented as

- 1) By Product Type: Single Channel, Multi-Channel
- 2) By Data Rate: 100 Gigabits Per Second (100G), 200 Gigabits Per Second (200G), 400 Gigabits Per Second (400G), Above
- 3) By Application: Telecommunications, Data Centers, Enterprises, Other Applications

## Subsegments:

- 1) By Single Channel: Coarse Wavelength Division Multiplexing (CWDM) Transponder, Dense Wavelength Division Multiplexing (DWDM) Transponder, Tunable Transponder, Fixed Wavelength Transponder
- 2) By Multi-Channel: Dense Wavelength Division Multiplexing (DWDM), Coarse Wavelength Division Multiplexing (CWDM), Flex-Grid Reconfigurable Optical Add-Drop Multiplexer (ROADM), Multi-Degree Reconfigurable Optical Add-Drop Multiplexer (ROADM)

View the full open reconfigurable optical add-drop multiplexer (roadm) packet-transponder market report:

https://www.thebusinessresearchcompany.com/report/open-reconfigurable-optical-add-drop-multiplexer-roadm-packet-transponder-global-market-report

Which Region Is Projected To Hold The Largest Market Share In The Global Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder Market? In 2024, North America held the dominant position in the global market for Open Reconfigurable Optical Add-Drop Multiplexer (ROADM) Packet-Transponder. The highest rate of growth is projected for the Asia-Pacific region in the forecast period. The market report covers varied

regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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