

Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market Set to Reach \$8.46 Bn by 2029

*The Business Research Company's
Internet Protocol Over Dense Wavelength
Division Multiplexing (DWDM) Router
Market Report 2025 – Trends & Forecasts
2025-2034*

LONDON, GREATER LONDON, UNITED
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/EINPresswire.com/ -- What Is The
Expected Cagr For The Internet
Protocol (IP) Over Dense Wavelength

Division Multiplexing (DWDM) Router Market Through 2025?

Over the recent years, the routers that use internet protocol (IP) over dense wavelength division multiplexing (DWDM) market size has seen a remarkable growth. The market is projected to expand from \$4.02 billion in 2024 to \$4.67 billion in 2025, boasting a compound annual growth

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rate (CAGR) of a significant 16.4%. The growth witnessed in the previous period is believed to be driven by factors such as the surge in internet usage and smartphone adoption, increased demand for applications based on cloud technology, the rise in video streaming traffic globally, enhancements in telecommunication infrastructure investments, and growing business requirements for services demanding higher bandwidth.

A swift expansion is foreseen for the internet protocol (IP) over dense wavelength division multiplexing (DWDM)

routers market, as it is predicted to rise to \$8.46 billion in 2029 at a compound annual growth rate (CAGR) of 16.0%. The rampant growth during the forecast years is likely due to the amplified demand for low latency in 5G backhaul, an upsurge in digital infrastructure projects for smart cities, greater acceptance of internet of things (IoT) applications, expansion of hyperscale data center connectivity, and a rise in government-driven initiatives for broadband access. Key trends during the forecast period consist of progression in 400G coherent optics, the evolving nature of

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flexible grid dense wavelength division multiplexing (DWDM) systems, breakthroughs in modular pluggable transceivers, advancements in the field of software-defined networking, and innovative strides made in quantum cryptography for optical transmission.

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What Are The Key Factors Driving Growth In The Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market?

The surge in cloud computing services is anticipated to fuel the expansion of the internet protocol (IP) over dense wavelength division multiplexing (DWDM) router market in the future. These services offer immediate access to computing assets like servers, storage, and applications via the internet. The growth of cloud computing services is attributed to businesses adopting scalable, flexible IT resources, which allows for quick modifications in computing ability without hefty initial costs. IP over DWDM routers offer high-capacity, low-latency data transmission by integrating IP routing with numerous optical channels on a single fiber, which facilitates faster data transfer and scalable bandwidth for effective cloud computing interconnections. For example, as of December 2023, Eurostat, a Luxembourg-based statistical office of the European Union reported that 45.2% of EU enterprises acquired cloud computing services in 2023, marking a 4.2 percentage point increase from 2021. Consequently, the rise in cloud computing services is propelling the expansion of the IP over DWDM router market.

What Are The Top Players Operating In The Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market?

Major players in the Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Global Market Report 2025 include:

- Huawei Technologies Co. Ltd
- Cisco Systems Inc.
- Hewlett Packard Enterprise Company
- Fujitsu Limited
- Telefonaktiebolaget LM Ericsson
- NEC Corporation
- Nokia Corporation
- ZTE Corporation
- Arista Networks Inc.
- Ciena Corporation

What Are The Major Trends That Will Shape The Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market In The Future?

Leading firms in the IP over DWDM router industry are focusing on the creation of innovative solutions, such as orthogonal architecture-based modular centralized routers, to facilitate high-

capacity, low-latency data transfer through optical networks. These routers are designed with swap-able modules that function together but independently, enabling synchronous, non-interfering data processing and enhancing scalability and general performance. Ribbon Communications Inc., an American IP and optical networking solution provider, in February 2025, unveiled the NPT XDR2000 series that includes the NPT 2714 and NPT 2507 routers. The NPT 2714 merges both modular and fixed architectures for optimal performance, scalable "pay-as-you-grow" switching capacity and integrates coherent IPoDWDM routing in a single platform with 36 × 400G ZR+ interfaces along with plug-in amplifiers to improve reach. The NPT 2507, on the other hand, is a compact, cost-effective fixed-form router with high-capacity coherent interfaces. Both versions are crafted to provide network operators with enhanced adaptability, redundancy, and security, while minimizing costs.

Comprehensive Segment-Wise Insights Into The Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market

The internet protocol (IP) over dense wavelength division multiplexing (DWDM) router market covered in this report is segmented as

- 1) By Component: Hardware, Software, Services
- 2) By Router Type: Core Routers, Edge Routers, Access Routers
- 3) By Deployment Mode: On-Premises, Cloud-Based
- 4) By Bandwidth: 10 Gigabit Per Second (10G), 40 Gigabit Per Second (40G), 100 Gigabit Per Second (100G), 400 Gigabit Per Second (400G) And Above
- 5) By Application: Telecommunications, Data Centers, Enterprises, Cloud Service Providers, Other Applications

Subsegments:

- 1) By Hardware: Routers, Switches, Transponders, Multiplexers, Optical Amplifiers
- 2) By Software: Network Management Software, Orchestration Software, Analytics And Monitoring Software, Security Software, Automation And Provisioning Software
- 3) By Services: Consulting Services, Implementation And Integration Services, Maintenance And Support Services, Training And Education Services, Managed Services

View the full internet protocol (ip) over dense wavelength division multiplexing (dwdm) router market report:

<https://www.thebusinessresearchcompany.com/report/internet-protocol-ip-over-dense-wavelength-division-multiplexing-dwdm-router-global-market-report>

Global Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router Market - Regional Insights

The 2025 global market report on Internet Protocol (IP) Over Dense Wavelength Division Multiplexing (DWDM) Router named North America as the dominant region in the year 2024. Moreover, Asia-Pacific is projected to top the list for the quickest developing region in the upcoming forecast period. This market report encapsulates regions such as Asia-Pacific, Western

Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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