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Global AWG Chip for Data Centers Market Growth 2026-2032

https://marketpublishers.com/r/GB93CC160558EN.html
Date: October 2026
Pages: 88
Price: US$ 3,660.00 (Single User License)
ID: GB93CC160558EN

Abstracts

The global AWG Chip for Data Centers market size is predicted to grow from US$ 440 million in 2025 to US$ 808 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 2032.

In 2025, the global production of AWG chip for eata centers reached approximately 5.62 million units, with an average global market price of around US$80 per unit. In the same year, the global total production capacity of AWG chip for eata centers reached 7.02 million units. The industry average gross profit margin of this product reached 45%.AWG chips for data centers are core passive components for optical communications based on planar lightguide (PLC) technology. They multiplex or demultiplex optical signals of different wavelengths through a precisely designed waveguide array, enabling efficient, parallel transmission of multiple signals within a single optical fiber. These chips offer high wavelength accuracy, low insertion loss, and a compact size. They are key components for high-speed interconnects within data centers and data center interconnects (DCI), directly supporting the high-bandwidth, low-latency demands of cloud computing and big data applications.

The AWG chip industry chain covers upstream materials and equipment (silicon-based substrates, silicon dioxide materials, photolithography machines, coating equipment), midstream chip design, manufacturing and packaging, and downstream applications in optical modules (such as TOSA/ROSA), optical communication equipment, and ultimately serves data centers, 5G and broadband networks. In the global market, NEL, Shijia Photonics, Ningbo Xinsulian, etc. are major players. Among them, Chinese companies have made significant progress in the research and development and industrialization of AWG chips, enhancing their competitiveness in the global market.Driven by rapid traffic growth, high-speed optical interconnects have become a

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key focus for data center infrastructure upgrades. As 800G optical modules enter the stage of large-scale deployment and 1.6T modules begin commercial validation, the sustained demand for low-loss, high-channel-density, and miniaturized optical components is fueling rapid growth in the AWG chip market. Meanwhile, advancements in silicon photonics, CPO (Co-Packaged Optics), and LPO (Linear-drive Pluggable Optics) technologies are further enhancing the importance of AWG chips in high-speed optical communications. Future market growth will be primarily driven by the construction of AI data centers, increased capital expenditure by North American cloud providers, investments in computing infrastructure in China, data center interconnect (DCI) network upgrades, and the market penetration of next-generation 800G, 1.6T, and 3.2T optical modules. Looking ahead, AWG chip technology is expected to evolve toward higher channel counts, lower insertion loss, smaller footprints, and higher levels of integration.

LP Information, Inc. (LPI) ' newest research report, the “AWG Chip for Data Centers Industry Forecast” looks at past sales and reviews total world AWG Chip for Data Centers sales in 2025, providing a comprehensive analysis by region and market sector of projected AWG Chip for Data Centers sales for 2026 through 2032. With AWG Chip for Data Centers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AWG Chip for Data Centers industry.

This Insight Report provides a comprehensive analysis of the global AWG Chip for Data Centers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AWG Chip for Data Centers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AWG Chip for Data Centers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AWG Chip for Data Centers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AWG Chip for Data Centers.

This report presents a comprehensive overview, market shares, and growth opportunities of AWG Chip for Data Centers market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

100G

200G

400G

800G

Segmentation by Functional Structure:

AWG Multiplexer (MUX) Chip

AWG Demultiplexer (DEMUX) Chip

Bidirectional MUX/DEMUX AWG Chip

Segmentation by Temperature Control:

Thermal AWG

Athermal AWG

Segmentation by Application:

Internet Industry

Finance and Insurance

Manufacturing Industry

Government Sector

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Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NEL

PPI Inc

Sumitomo

Enablence

Accelink

Broadex

Key Questions Addressed in this Report

What is the 10-year outlook for the global AWG Chip for Data Centers market?

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What factors are driving AWG Chip for Data Centers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AWG Chip for Data Centers market opportunities vary by end market size?

How does AWG Chip for Data Centers break out by Type, by Application?

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