

# Global AWG Chip for Data Centers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AWG Chip for Data Centers market size is expected to reach \$ 825 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

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

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.

This report studies the global AWG Chip for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AWG Chip for Data Centers 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 AWG Chip for Data Centers that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global AWG Chip for Data Centers total production and demand, 2021-2032, (K Units)

Global AWG Chip for Data Centers total production value, 2021-2032, (USD Million)

Global AWG Chip for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AWG Chip for Data Centers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AWG Chip for Data Centers domestic production, consumption, key domestic manufacturers and share

Global AWG Chip for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AWG Chip for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AWG Chip for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AWG Chip for Data Centers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NEL, PPI Inc, Sumitomo, Enablence, Accelink, Broadex, 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 AWG Chip for Data Centers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 AWG Chip for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global AWG Chip for Data Centers Market, Segmentation by Type:

100G

200G

400G

800G

### Global AWG Chip for Data Centers Market, Segmentation by Functional Structure:

AWG Multiplexer (MUX) Chip

AWG Demultiplexer (DEMUX) Chip

Bidirectional MUX/DEMUX AWG Chip

### Global AWG Chip for Data Centers Market, Segmentation by Temperature Control:

Thermal AWG

Athermal AWG

### Global AWG Chip for Data Centers Market, Segmentation by Application:

Internet Industry

Finance and Insurance

Manufacturing Industry

Government Sector

Others

### Companies Profiled:

NEL

PPI Inc

Sumitomo

Enablence

Accelink

Broadex

### Key Questions Answered:

1. How big is the global AWG Chip for Data Centers market?
2. What is the demand of the global AWG Chip for Data Centers market?
3. What is the year over year growth of the global AWG Chip for Data Centers market?
4. What is the production and production value of the global AWG Chip for Data Centers market?
5. Who are the key producers in the global AWG Chip for Data Centers market?
6. What are the growth factors driving the market demand?

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