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Asia Pacific Pluggable Optics for Data Center Market Report (2021-2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

https://marketpublishers.com/r/A0014B87EBF8EN.html
Date: July 2025
Pages: 163
Price: US$ 3,450.00 (Single User License)
ID: A0014B87EBF8EN

Abstracts

The Asia Pacific pluggable optics for data center market size is expected to reach US$ 4,351.44 million by 2031 from US$ 1,728.18 million in 2023. The market is estimated to record a CAGR of 12.2% from 2023 to 2031.

Executive Summary and Asia Pacific Pluggable Optics for Data Center Market Analysis:

The Asia Pacific pluggable optics for data center market is segmented into China, India, Japan, Australia, South Korea, and the Rest of Asia Pacific. The region is projected to grow at a significant CAGR, due to an upsurge in digitalization, development of data centers, and modernization of optical networks, resulting in a rise in the demand for pluggable optics. The Asia Pacific data center market has 801 data centers operated by 192 providers. The largest data center in the region is Goodman: Tsuen Wan West Campus with 225 megawatts. According to Nokia Corporation data published on November 2023, data center operators in region focus on modernizing national optical networks to increase scale, agility and availability. This increases the adoption of pluggable optics in data centers for adjusting different data rates or wavelengths by optimizing performance. According to CBRE South Asia Pvt. Ltd's report titled 'Asia Pacific Data Center Trends Q1 2024', India tops major APAC countries with the highest data center capacity of around 950MW in Asia Pacific (excluding China), overtaking major countries such as Australia, Hong Kong SAR, Japan, Singapore, and South Korea. India is planning to expand its data center capacity to around 850 MW during 2024–2026. Further, the data center sector in the region has witnessed significant investments from global operators, private equity funds, and real estate developers. This supports region in rapid digital transformation and high-speed transmission across Asia Pacific countries.

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Asia Pacific Pluggable Optics for Data Center Market Segmentation Analysis:

Key segments that contributed to the derivation of the Asia Pacific pluggable optics for data center market analysis are component and data rate.

Based on component, the Asia Pacific pluggable optics for data center market is segmented into switches, routers, and servers. The switches held the largest share of the market in 2023.

By data rate, the Asia Pacific pluggable optics for data center market is segmented into 100-400GB/S, 400-800GB/S, and 800GB/S and Above. The 400-800GB/S segment held the largest share of the market in 2023.

Asia Pacific Pluggable Optics for Data Center Market Outlook

High-performance computing (HPC), or supercomputing, is a practice of combining computing power in a way that produces significantly more horsepower than traditional computers and servers. According to IBM, it is more than one million times faster than the fastest commodity desktop, laptop, or server systems. HPC is a method of processing massive amounts of data at extremely high speeds using multiple computers and storage devices. A high volume of calculations in a short amount of time is needed in today's business landscape for faster operations. Many HPC data centers are linked to large private and public companies that require a lot of computing power. The HPC power helps businesses solve problems that would otherwise be impossible to solve using traditional computing systems.

HPC is about the interconnection of many storage, computing, and networking systems, which generates the need for cost-effective, sustainable, and scalable optical networking solutions. This factor fuels the need for high-bandwidth pluggable transceivers for HPC data centers. Various companies in the region are focused on launching data centers or expanding their facilities to handle HPC workloads.

Asia Pacific Pluggable Optics for Data Center Market Country Insights

Based on country, the Asia Pacific pluggable optics for data center market comprises China, Japan, India, South Korea, Australia, and the Rest of Asia Pacific. China held the largest share in 2023.

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An increase in organizational initiatives and support for creating awareness related to the benefits of pluggable optics—including cost-efficiency, scalability, flexibility, network optimization, interoperability, easy deployment, simplified maintenance, and enhanced network availability—in data centers are contributing to the pluggable optics for data center market growth in China. For instance, in March 2024, Eoptolink Technology Inc., Ltd. participated in OFC 2024 to demonstrate industry 1st 200G per lane LPO 800G optical transceivers. This demonstration supports the company in creating awareness related to the benefits provided by 200G per lane LPO 800G optical transceivers to the data center. Further, 200G per lane LPO 800G optical transceivers are highly suitable for high-performance computing applications such as AI and ML clusters. This increases adoption among businesses focusing on deploying advanced technologies.

Asia Pacific Pluggable Optics for Data Center Market Company Profiles

Some of the key players operating in the Pluggable Optics for Data Center Market include Coherent Corp, Nokia Corp, Cisco Systems I, Infinera Corp, Telefonaktiebolaget LM Ericsson, Ciena Corp, Intel Corp, Lumentum Holdings Inc, Juniper Networks Inc, Marvell Technology Inc, Yangtze Optical Fibre and Cable Joint Stock Ltd, and Broadcom Inc among others. These players are adopting various strategies such as expansion, product innovation, and mergers and acquisitions to provide innovative products to their consumers and increase their market share.

Asia Pacific Pluggable Optics for Data Center Market Research Methodology :

The following methodology has been followed for the collection and analysis of data presented in this report:

Secondary Research The research process begins with comprehensive secondary research, utilizing both internal and external sources to gather qualitative and quantitative data for each market. Commonly referenced secondary research sources include, but are not limited to:

Company websites , annual reports, financial statements, broker analyses, and investor presentations. Industry trade journals and other relevant publications. Government documents , statistical databases, and market reports. News articles , press releases, and webcasts specific to companies operating in the market. Note: All financial data included in the Company Profiles section has been standardized to USD. For companies reporting in other currencies, figures have been converted to USD using the relevant exchange rates for the corresponding year.

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Primary Research The Insight Partners' conducts a significant number of primary interviews each year with industry stakeholders and experts to validate its data analysis, and gain valuable insights. These research interviews are designed to:

Validate and refine findings from secondary research. Enhance the expertise and market understanding of the analysis team. Gain insights into market size, trends, growth patterns, competitive dynamics, and future prospects. Primary research is conducted via email interactions and telephone interviews, encompassing various markets, categories, segments, and sub-segments across different regions. Participants typically include:

Industry stakeholders : Vice Presidents, business development managers, market intelligence managers, and national sales managers External experts : Valuation specialists, research analysts, and key opinion leaders with industry-specific expertise

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Asia Pacific pluggable optics for data center market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in Asia Pacific pluggable optics for data center market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Asia Pacific market trends and outlook coupled with the factors driving the pluggable optics for data center market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin security interest with respect to client products, segmentation, pricing, and distribution.

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Companies

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- Cisco Systems Inc
- Infinera Corp
- Telefonaktiebolaget LM Ericsson
- Ciena Corp
- Intel Corp
- Lumentum Holdings Inc
- Juniper Networks Inc
- Marvell Technology Inc
- Yangtze Optical Fibre and Cable Joint Stock Ltd
- Broadcom Inc

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