

Global COBO On-Board Optical Module Market Growth 2026-2032

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Abstracts

The global COBO On-Board Optical Module market size is predicted to grow from US\$ 119 million in 2025 to US\$ 1078 million in 2032; it is expected to grow at a CAGR of 37.3% from 2026 to 2032.

COBO on-board optical modules are board-level optoelectronic conversion components designed for high-speed switching, server interconnects, and high-performance computing systems. They are typically mounted on the motherboard or in PCB areas close to switch chips and processors, converting SerDes outputs into multi-channel optical signals through very short electrical traces and then routing those signals out of the system through multi-fiber cables, in-board optical cables, or optical interfaces. Their core value is to mitigate the electrical loss, power consumption, thermal burden, and faceplate density constraints of front-panel pluggable modules at 400G and higher data rates, while improving bandwidth density and signal integrity within limited board space. Typical product forms include COBO-standardized eight-lane and sixteen-lane modules, on-board optical transceivers, embedded optical engines, compliance test boards, in-board optical cables, and matching connectors. Technology paths include VCSEL-based multimode parallel optics, silicon photonics, thin-film lithium niobate modulators, PAM4 high-speed electrical interfaces, LGA or surface-mount interconnects, and multi-fiber array coupling. Major customers include cloud data centers, switch vendors, server and accelerator card manufacturers, supercomputing systems, and aerospace and defense electronics integrators, with procurement models commonly involving customized design-in, sample validation, limited-volume supply, and system-level co-development.

The industrial value of COBO on-board optical modules comes from the continued expansion of electrical interconnect bottlenecks in high-speed switching systems. As the

interface bandwidth of switch chips, processors, and accelerators continues to rise, traditional front-panel pluggable modules require high-speed electrical signals to travel through longer PCB traces and more interconnect structures, which increases loss, crosstalk, equalization power, and thermal pressure at the same time. On-board optical modules move the optoelectronic conversion point into the motherboard and even close to the switch chip or processor, allowing electrical signals to be converted over an extremely short path and then routed over longer distances through fiber or flyover cables. The core significance of this architecture is not simply changing the physical location of the module, but reallocating system constraints among board-level signal integrity, power consumption, thermal management, and faceplate density. Compared with front-panel modules, the on-board approach is better suited to high-end switching, AI clusters, high-performance computing, and closed dedicated systems. Compared with co-packaged optics, it retains relatively replaceable, testable, and separable engineering boundaries, giving it an important transitional role in the evolution of next-generation optical interconnects.

The COBO on-board optical module market is unlikely to converge rapidly around a single route in the near term. Instead, standardized modules, broader mid-board optical transceivers, embedded optical engines, board-mounted optical assemblies, in-board optical cables, and compliance test ecosystems will develop in parallel. Different downstream systems vary widely in their requirements for data rate, reach, power consumption, serviceability, and environmental reliability, creating layered technology paths across VCSEL-based multimode parallel optics, silicon photonics, thin-film lithium niobate, LGA interconnects, surface mounting, multi-fiber array coupling, and flyover architectures. Data centers emphasize bandwidth density, energy per bit, and system cooling. High-performance computing focuses on low latency between nodes and system routability. Aerospace and defense systems prioritize wide temperature ranges, vibration resistance, low profile, and long-term reliability. Therefore, COBO on-board optical modules should not be viewed as an isolated standard component market, but as a supply-chain portfolio market built around system architecture redesign. Competitive advantage comes from the combined fit of optical chips, packaging, connectors, thermal design, test validation, and system-level co-development capabilities.

From an industry outlook perspective, COBO on-board optical modules benefit from the long-term growth of AI data centers, 800G-to-1.6T network upgrades, supercomputing interconnects, and dedicated embedded computing. However, the pace of commercialization will depend on how system vendors balance serviceability, standards-based interchangeability, thermal design responsibility, and total cost of ownership.

Front-panel pluggable modules still have a mature ecosystem and maintenance advantages, while co-packaged optics represents a deeper direction of chip-level integration. On-board optical modules provide an engineering compromise between the two. They reduce the pressure on high-speed electrical paths without immediately forcing the supply chain boundary changes required by co-packaging. In the future, on-board optical modules are more likely to expand first in high-end switches, dedicated accelerator interconnects, aerospace, and defense embedded platforms, before entering a broader range of data center equipment as standards, testing, and supply-chain collaboration mature. The overall outlook should be optimistic but not aggressive, with growth driven mainly by structural demand in high-bandwidth systems rather than simple replacement of existing optical modules.

LP Information, Inc. (LPI) ' newest research report, the "COBO On-Board Optical Module Industry Forecast" looks at past sales and reviews total world COBO On-Board Optical Module sales in 2025, providing a comprehensive analysis by region and market sector of projected COBO On-Board Optical Module sales for 2026 through 2032. With COBO On-Board Optical Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world COBO On-Board Optical Module industry.

This Insight Report provides a comprehensive analysis of the global COBO On-Board Optical Module 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 COBO On-Board Optical Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global COBO On-Board Optical Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for COBO On-Board Optical Module and breaks down the forecast by Optical Medium, 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 COBO On-Board Optical Module.

This report presents a comprehensive overview, market shares, and growth opportunities of COBO On-Board Optical Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Optical Medium:

Multimode Fiber Optical Module

Single-Mode Fiber Optical Module

In-Board Optical Cable Module

Embedded Waveguide Optical Module

Segmentation by Optoelectronic Platform:

VCSEL Array Optical Module

Silicon Photonics Optical Module

Thin-Film Lithium Niobate Optical Module

Gallium Arsenide Short-Reach Optical Module

Indium Phosphide Medium- and Long-Reach Optical Module

Hybrid Integrated Optical Module

Segmentation by Mounting Method:

Surface-Mount Optical Module

LGA Socket-Mounted Optical Module

BGA-Mounted Optical Module

Screw-Fixed Optical Module

Board-Connector Pluggable Optical Module

Segmentation by Application:

- Data Center Switch Interconnect
- Server Adapter Interconnect
- High-Performance Computing Interconnect
- Aerospace Embedded Interconnect
- Industrial Embedded Interconnect
- Other

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

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.

Kyocera Corporation

Samtec, Inc.

Applied Optoelectronics, Inc.

Amphenol Corporation

Broadcom Inc.

Smiths Group plc

Furukawa FITEC Optical Components Co., Ltd.

Molex, LLC

Coherent Corp.

Key Questions Addressed in this Report

What is the 10-year outlook for the global COBO On-Board Optical Module market?

What factors are driving COBO On-Board Optical Module market growth, globally and by region?

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

How do COBO On-Board Optical Module market opportunities vary by end market size?

How does COBO On-Board Optical Module break out by Optical Medium, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global COBO On-Board Optical Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for COBO On-Board Optical Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for COBO On-Board Optical Module by Country/Region, 2021, 2025 & 2032
- 2.2 COBO On-Board Optical Module Segment by Optical Medium
 - 2.2.1 Multimode Fiber Optical Module
 - 2.2.2 Single-Mode Fiber Optical Module
 - 2.2.3 In-Board Optical Cable Module
 - 2.2.4 Embedded Waveguide Optical Module
 - 2.2.5 COBO On-Board Optical Module Sales by Optical Medium
 - 2.2.5.1 Global COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)
 - 2.2.5.2 Global COBO On-Board Optical Module Revenue and Market Share by Optical Medium (2021-2026)
 - 2.2.5.3 Global COBO On-Board Optical Module Sale Price by Optical Medium (2021-2026)
- 2.3 COBO On-Board Optical Module Segment by Optoelectronic Platform
 - 2.3.1 VCSEL Array Optical Module
 - 2.3.2 Silicon Photonics Optical Module
 - 2.3.3 Thin-Film Lithium Niobate Optical Module
 - 2.3.4 Gallium Arsenide Short-Reach Optical Module
 - 2.3.5 Indium Phosphide Medium- and Long-Reach Optical Module

2.3.6 Hybrid Integrated Optical Module

2.3.7 COBO On-Board Optical Module Sales by Optoelectronic Platform

2.3.7.1 Global COBO On-Board Optical Module Sales Market Share by Optoelectronic Platform (2021-2026)

2.3.7.2 Global COBO On-Board Optical Module Revenue and Market Share by Optoelectronic Platform (2021-2026)

2.3.7.3 Global COBO On-Board Optical Module Sale Price by Optoelectronic Platform (2021-2026)

2.4 COBO On-Board Optical Module Segment by Mounting Method

2.4.1 Surface-Mount Optical Module

2.4.2 LGA Socket-Mounted Optical Module

2.4.3 BGA-Mounted Optical Module

2.4.4 Screw-Fixed Optical Module

2.4.5 Board-Connector Pluggable Optical Module

2.4.6 COBO On-Board Optical Module Sales by Mounting Method

2.4.6.1 Global COBO On-Board Optical Module Sales Market Share by Mounting Method (2021-2026)

2.4.6.2 Global COBO On-Board Optical Module Revenue and Market Share by Mounting Method (2021-2026)

2.4.6.3 Global COBO On-Board Optical Module Sale Price by Mounting Method (2021-2026)

2.5 COBO On-Board Optical Module Segment by Application

2.5.1 Data Center Switch Interconnect

2.5.2 Server Adapter Interconnect

2.5.3 High-Performance Computing Interconnect

2.5.4 Aerospace Embedded Interconnect

2.5.5 Industrial Embedded Interconnect

2.5.6 Other

2.5.7 COBO On-Board Optical Module Sales by Application

2.5.7.1 Global COBO On-Board Optical Module Sale Market Share by Application (2021-2026)

2.5.7.2 Global COBO On-Board Optical Module Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global COBO On-Board Optical Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global COBO On-Board Optical Module Breakdown Data by Company

- 3.1.1 Global COBO On-Board Optical Module Annual Sales by Company (2021-2026)
- 3.1.2 Global COBO On-Board Optical Module Sales Market Share by Company (2021-2026)
- 3.2 Global COBO On-Board Optical Module Annual Revenue by Company (2021-2026)
 - 3.2.1 Global COBO On-Board Optical Module Revenue by Company (2021-2026)
 - 3.2.2 Global COBO On-Board Optical Module Revenue Market Share by Company (2021-2026)
- 3.3 Global COBO On-Board Optical Module Sale Price by Company
- 3.4 Key Manufacturers COBO On-Board Optical Module Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers COBO On-Board Optical Module Product Location Distribution
 - 3.4.2 Players COBO On-Board Optical Module Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR COBO ON-BOARD OPTICAL MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic COBO On-Board Optical Module Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global COBO On-Board Optical Module Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global COBO On-Board Optical Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic COBO On-Board Optical Module Market Size by Country/Region (2021-2026)
 - 4.2.1 Global COBO On-Board Optical Module Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global COBO On-Board Optical Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas COBO On-Board Optical Module Sales Growth
- 4.4 APAC COBO On-Board Optical Module Sales Growth
- 4.5 Europe COBO On-Board Optical Module Sales Growth
- 4.6 Middle East & Africa COBO On-Board Optical Module Sales Growth

5 AMERICAS

5.1 Americas COBO On-Board Optical Module Sales by Country

5.1.1 Americas COBO On-Board Optical Module Sales by Country (2021-2026)

5.1.2 Americas COBO On-Board Optical Module Revenue by Country (2021-2026)

5.2 Americas COBO On-Board Optical Module Sales by Optical Medium (2021-2026)

5.3 Americas COBO On-Board Optical Module Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC COBO On-Board Optical Module Sales by Region

6.1.1 APAC COBO On-Board Optical Module Sales by Region (2021-2026)

6.1.2 APAC COBO On-Board Optical Module Revenue by Region (2021-2026)

6.2 APAC COBO On-Board Optical Module Sales by Optical Medium (2021-2026)

6.3 APAC COBO On-Board Optical Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe COBO On-Board Optical Module by Country

7.1.1 Europe COBO On-Board Optical Module Sales by Country (2021-2026)

7.1.2 Europe COBO On-Board Optical Module Revenue by Country (2021-2026)

7.2 Europe COBO On-Board Optical Module Sales by Optical Medium (2021-2026)

7.3 Europe COBO On-Board Optical Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa COBO On-Board Optical Module by Country

8.1.1 Middle East & Africa COBO On-Board Optical Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa COBO On-Board Optical Module Revenue by Country (2021-2026)

8.2 Middle East & Africa COBO On-Board Optical Module Sales by Optical Medium (2021-2026)

8.3 Middle East & Africa COBO On-Board Optical Module Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of COBO On-Board Optical Module

10.3 Manufacturing Process Analysis of COBO On-Board Optical Module

10.4 Industry Chain Structure of COBO On-Board Optical Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 COBO On-Board Optical Module Distributors

11.3 COBO On-Board Optical Module Customer

12 WORLD FORECAST REVIEW FOR COBO ON-BOARD OPTICAL MODULE BY GEOGRAPHIC REGION

12.1 Global COBO On-Board Optical Module Market Size Forecast by Region

12.1.1 Global COBO On-Board Optical Module Forecast by Region (2027-2032)

12.1.2 Global COBO On-Board Optical Module Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global COBO On-Board Optical Module Forecast by Optical Medium (2027-2032)

12.7 Global COBO On-Board Optical Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Kyocera Corporation

13.1.1 Kyocera Corporation Company Information

13.1.2 Kyocera Corporation COBO On-Board Optical Module Product Portfolios and Specifications

13.1.3 Kyocera Corporation COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Kyocera Corporation Main Business Overview

13.1.5 Kyocera Corporation Latest Developments

13.2 Samtec, Inc.

13.2.1 Samtec, Inc. Company Information

13.2.2 Samtec, Inc. COBO On-Board Optical Module Product Portfolios and Specifications

13.2.3 Samtec, Inc. COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Samtec, Inc. Main Business Overview

13.2.5 Samtec, Inc. Latest Developments

13.3 Applied Optoelectronics, Inc.

13.3.1 Applied Optoelectronics, Inc. Company Information

13.3.2 Applied Optoelectronics, Inc. COBO On-Board Optical Module Product Portfolios and Specifications

13.3.3 Applied Optoelectronics, Inc. COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Applied Optoelectronics, Inc. Main Business Overview

- 13.3.5 Applied Optoelectronics, Inc. Latest Developments
- 13.4 Amphenol Corporation
 - 13.4.1 Amphenol Corporation Company Information
 - 13.4.2 Amphenol Corporation COBO On-Board Optical Module Product Portfolios and Specifications
 - 13.4.3 Amphenol Corporation COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Amphenol Corporation Main Business Overview
 - 13.4.5 Amphenol Corporation Latest Developments
- 13.5 Broadcom Inc.
 - 13.5.1 Broadcom Inc. Company Information
 - 13.5.2 Broadcom Inc. COBO On-Board Optical Module Product Portfolios and Specifications
 - 13.5.3 Broadcom Inc. COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Broadcom Inc. Main Business Overview
 - 13.5.5 Broadcom Inc. Latest Developments
- 13.6 Smiths Group plc
 - 13.6.1 Smiths Group plc Company Information
 - 13.6.2 Smiths Group plc COBO On-Board Optical Module Product Portfolios and Specifications
 - 13.6.3 Smiths Group plc COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Smiths Group plc Main Business Overview
 - 13.6.5 Smiths Group plc Latest Developments
- 13.7 Furukawa FITELE Optical Components Co., Ltd.
 - 13.7.1 Furukawa FITELE Optical Components Co., Ltd. Company Information
 - 13.7.2 Furukawa FITELE Optical Components Co., Ltd. COBO On-Board Optical Module Product Portfolios and Specifications
 - 13.7.3 Furukawa FITELE Optical Components Co., Ltd. COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Furukawa FITELE Optical Components Co., Ltd. Main Business Overview
 - 13.7.5 Furukawa FITELE Optical Components Co., Ltd. Latest Developments
- 13.8 Molex, LLC
 - 13.8.1 Molex, LLC Company Information
 - 13.8.2 Molex, LLC COBO On-Board Optical Module Product Portfolios and Specifications
 - 13.8.3 Molex, LLC COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Molex, LLC Main Business Overview

13.8.5 Molex, LLC Latest Developments

13.9 Coherent Corp.

13.9.1 Coherent Corp. Company Information

13.9.2 Coherent Corp. COBO On-Board Optical Module Product Portfolios and Specifications

13.9.3 Coherent Corp. COBO On-Board Optical Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Coherent Corp. Main Business Overview

13.9.5 Coherent Corp. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. COBO On-Board Optical Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. COBO On-Board Optical Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Multimode Fiber Optical Module

Table 4. Major Players of Single-Mode Fiber Optical Module

Table 5. Major Players of In-Board Optical Cable Module

Table 6. Major Players of Embedded Waveguide Optical Module

Table 7. Global COBO On-Board Optical Module Sales by Optical Medium (2021-2026) & (K Units)

Table 8. Global COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)

Table 9. Global COBO On-Board Optical Module Revenue by Optical Medium (2021-2026) & (\$ million)

Table 10. Global COBO On-Board Optical Module Revenue Market Share by Optical Medium (2021-2026)

Table 11. Global COBO On-Board Optical Module Sale Price by Optical Medium (2021-2026) & (US\$/Unit)

Table 12. Major Players of VCSEL Array Optical Module

Table 13. Major Players of Silicon Photonics Optical Module

Table 14. Major Players of Thin-Film Lithium Niobate Optical Module

Table 15. Major Players of Gallium Arsenide Short-Reach Optical Module

Table 16. Major Players of Indium Phosphide Medium- and Long-Reach Optical Module

Table 17. Major Players of Hybrid Integrated Optical Module

Table 18. Global COBO On-Board Optical Module Sales by Optoelectronic Platform (2021-2026) & (K Units)

Table 19. Global COBO On-Board Optical Module Sales Market Share by Optoelectronic Platform (2021-2026)

Table 20. Global COBO On-Board Optical Module Revenue by Optoelectronic Platform (2021-2026) & (\$ million)

Table 21. Global COBO On-Board Optical Module Revenue Market Share by Optoelectronic Platform (2021-2026)

Table 22. Global COBO On-Board Optical Module Sale Price by Optoelectronic Platform (2021-2026) & (US\$/Unit)

Table 23. Major Players of Surface-Mount Optical Module

Table 24. Major Players of LGA Socket-Mounted Optical Module
Table 25. Major Players of BGA-Mounted Optical Module
Table 26. Major Players of Screw-Fixed Optical Module
Table 27. Major Players of Board-Connector Pluggable Optical Module
Table 28. Global COBO On-Board Optical Module Sales by Mounting Method (2021-2026) & (K Units)
Table 29. Global COBO On-Board Optical Module Sales Market Share by Mounting Method (2021-2026)
Table 30. Global COBO On-Board Optical Module Revenue by Mounting Method (2021-2026) & (\$ million)
Table 31. Global COBO On-Board Optical Module Revenue Market Share by Mounting Method (2021-2026)
Table 32. Global COBO On-Board Optical Module Sale Price by Mounting Method (2021-2026) & (US\$/Unit)
Table 33. Global COBO On-Board Optical Module Sale by Application (2021-2026) & (K Units)
Table 34. Global COBO On-Board Optical Module Sale Market Share by Application (2021-2026)
Table 35. Global COBO On-Board Optical Module Revenue by Application (2021-2026) & (\$ million)
Table 36. Global COBO On-Board Optical Module Revenue Market Share by Application (2021-2026)
Table 37. Global COBO On-Board Optical Module Sale Price by Application (2021-2026) & (US\$/Unit)
Table 38. Global COBO On-Board Optical Module Sales by Company (2021-2026) & (K Units)
Table 39. Global COBO On-Board Optical Module Sales Market Share by Company (2021-2026)
Table 40. Global COBO On-Board Optical Module Revenue by Company (2021-2026) & (\$ millions)
Table 41. Global COBO On-Board Optical Module Revenue Market Share by Company (2021-2026)
Table 42. Global COBO On-Board Optical Module Sale Price by Company (2021-2026) & (US\$/Unit)
Table 43. Key Manufacturers COBO On-Board Optical Module Producing Area Distribution and Sales Area
Table 44. Players COBO On-Board Optical Module Products Offered
Table 45. COBO On-Board Optical Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 46. New Products and Potential Entrants

Table 47. Market M&A Activity & Strategy

Table 48. Global COBO On-Board Optical Module Sales by Geographic Region
(2021-2026) & (K Units)

Table 49. Global COBO On-Board Optical Module Sales Market Share Geographic
Region (2021-2026)

Table 50. Global COBO On-Board Optical Module Revenue by Geographic Region
(2021-2026) & (\$ millions)

Table 51. Global COBO On-Board Optical Module Revenue Market Share by
Geographic Region (2021-2026)

Table 52. Global COBO On-Board Optical Module Sales by Country/Region
(2021-2026) & (K Units)

Table 53. Global COBO On-Board Optical Module Sales Market Share by
Country/Region (2021-2026)

Table 54. Global COBO On-Board Optical Module Revenue by Country/Region
(2021-2026) & (\$ millions)

Table 55. Global COBO On-Board Optical Module Revenue Market Share by
Country/Region (2021-2026)

Table 56. Americas COBO On-Board Optical Module Sales by Country (2021-2026) &
(K Units)

Table 57. Americas COBO On-Board Optical Module Sales Market Share by Country
(2021-2026)

Table 58. Americas COBO On-Board Optical Module Revenue by Country (2021-2026)
& (\$ millions)

Table 59. Americas COBO On-Board Optical Module Sales by Optical Medium
(2021-2026) & (K Units)

Table 60. Americas COBO On-Board Optical Module Sales by Application (2021-2026)
& (K Units)

Table 61. APAC COBO On-Board Optical Module Sales by Region (2021-2026) & (K
Units)

Table 62. APAC COBO On-Board Optical Module Sales Market Share by Region
(2021-2026)

Table 63. APAC COBO On-Board Optical Module Revenue by Region (2021-2026) & (\$
millions)

Table 64. APAC COBO On-Board Optical Module Sales by Optical Medium
(2021-2026) & (K Units)

Table 65. APAC COBO On-Board Optical Module Sales by Application (2021-2026) &
(K Units)

Table 66. Europe COBO On-Board Optical Module Sales by Country (2021-2026) & (K

Units)

Table 67. Europe COBO On-Board Optical Module Revenue by Country (2021-2026) & (\$ millions)

Table 68. Europe COBO On-Board Optical Module Sales by Optical Medium (2021-2026) & (K Units)

Table 69. Europe COBO On-Board Optical Module Sales by Application (2021-2026) & (K Units)

Table 70. Middle East & Africa COBO On-Board Optical Module Sales by Country (2021-2026) & (K Units)

Table 71. Middle East & Africa COBO On-Board Optical Module Revenue Market Share by Country (2021-2026)

Table 72. Middle East & Africa COBO On-Board Optical Module Sales by Optical Medium (2021-2026) & (K Units)

Table 73. Middle East & Africa COBO On-Board Optical Module Sales by Application (2021-2026) & (K Units)

Table 74. Key Market Drivers & Growth Opportunities of COBO On-Board Optical Module

Table 75. Key Market Challenges & Risks of COBO On-Board Optical Module

Table 76. Key Industry Trends of COBO On-Board Optical Module

Table 77. COBO On-Board Optical Module Raw Material

Table 78. Key Suppliers of Raw Materials

Table 79. COBO On-Board Optical Module Distributors List

Table 80. COBO On-Board Optical Module Customer List

Table 81. Global COBO On-Board Optical Module Sales Forecast by Region (2027-2032) & (K Units)

Table 82. Global COBO On-Board Optical Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Americas COBO On-Board Optical Module Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Americas COBO On-Board Optical Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. APAC COBO On-Board Optical Module Sales Forecast by Region (2027-2032) & (K Units)

Table 86. APAC COBO On-Board Optical Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 87. Europe COBO On-Board Optical Module Sales Forecast by Country (2027-2032) & (K Units)

Table 88. Europe COBO On-Board Optical Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Middle East & Africa COBO On-Board Optical Module Sales Forecast by Country (2027-2032) & (K Units)

Table 90. Middle East & Africa COBO On-Board Optical Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. Global COBO On-Board Optical Module Sales Forecast by Optical Medium (2027-2032) & (K Units)

Table 92. Global COBO On-Board Optical Module Revenue Forecast by Optical Medium (2027-2032) & (\$ millions)

Table 93. Global COBO On-Board Optical Module Sales Forecast by Application (2027-2032) & (K Units)

Table 94. Global COBO On-Board Optical Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 95. Kyocera Corporation Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 96. Kyocera Corporation COBO On-Board Optical Module Product Portfolios and Specifications

Table 97. Kyocera Corporation COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Kyocera Corporation Main Business

Table 99. Kyocera Corporation Latest Developments

Table 100. Samtec, Inc. Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 101. Samtec, Inc. COBO On-Board Optical Module Product Portfolios and Specifications

Table 102. Samtec, Inc. COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Samtec, Inc. Main Business

Table 104. Samtec, Inc. Latest Developments

Table 105. Applied Optoelectronics, Inc. Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 106. Applied Optoelectronics, Inc. COBO On-Board Optical Module Product Portfolios and Specifications

Table 107. Applied Optoelectronics, Inc. COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Applied Optoelectronics, Inc. Main Business

Table 109. Applied Optoelectronics, Inc. Latest Developments

Table 110. Amphenol Corporation Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 111. Amphenol Corporation COBO On-Board Optical Module Product Portfolios

and Specifications

Table 112. Amphenol Corporation COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Amphenol Corporation Main Business

Table 114. Amphenol Corporation Latest Developments

Table 115. Broadcom Inc. Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 116. Broadcom Inc. COBO On-Board Optical Module Product Portfolios and Specifications

Table 117. Broadcom Inc. COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Broadcom Inc. Main Business

Table 119. Broadcom Inc. Latest Developments

Table 120. Smiths Group plc Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 121. Smiths Group plc COBO On-Board Optical Module Product Portfolios and Specifications

Table 122. Smiths Group plc COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Smiths Group plc Main Business

Table 124. Smiths Group plc Latest Developments

Table 125. Furukawa FITEC Optical Components Co., Ltd. Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 126. Furukawa FITEC Optical Components Co., Ltd. COBO On-Board Optical Module Product Portfolios and Specifications

Table 127. Furukawa FITEC Optical Components Co., Ltd. COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Furukawa FITEC Optical Components Co., Ltd. Main Business

Table 129. Furukawa FITEC Optical Components Co., Ltd. Latest Developments

Table 130. Molex, LLC Basic Information, COBO On-Board Optical Module Manufacturing Base, Sales Area and Its Competitors

Table 131. Molex, LLC COBO On-Board Optical Module Product Portfolios and Specifications

Table 132. Molex, LLC COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Molex, LLC Main Business

Table 134. Molex, LLC Latest Developments

Table 135. Coherent Corp. Basic Information, COBO On-Board Optical Module

Manufacturing Base, Sales Area and Its Competitors

Table 136. Coherent Corp. COBO On-Board Optical Module Product Portfolios and Specifications

Table 137. Coherent Corp. COBO On-Board Optical Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Coherent Corp. Main Business

Table 139. Coherent Corp. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of COBO On-Board Optical Module
- Figure 2. COBO On-Board Optical Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global COBO On-Board Optical Module Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global COBO On-Board Optical Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. COBO On-Board Optical Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. COBO On-Board Optical Module Sales Market Share by Country/Region (2025)
- Figure 10. COBO On-Board Optical Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Multimode Fiber Optical Module
- Figure 12. Product Picture of Single-Mode Fiber Optical Module
- Figure 13. Product Picture of In-Board Optical Cable Module
- Figure 14. Product Picture of Embedded Waveguide Optical Module
- Figure 15. Global COBO On-Board Optical Module Sales Market Share by Optical Medium in 2026
- Figure 16. Global COBO On-Board Optical Module Revenue Market Share by Optical Medium (2021-2026)
- Figure 17. Product Picture of VCSEL Array Optical Module
- Figure 18. Product Picture of Silicon Photonics Optical Module
- Figure 19. Product Picture of Thin-Film Lithium Niobate Optical Module
- Figure 20. Product Picture of Gallium Arsenide Short-Reach Optical Module
- Figure 21. Product Picture of Indium Phosphide Medium- and Long-Reach Optical Module
- Figure 22. Product Picture of Hybrid Integrated Optical Module
- Figure 23. Global COBO On-Board Optical Module Sales Market Share by Optoelectronic Platform in 2026
- Figure 24. Global COBO On-Board Optical Module Revenue Market Share by Optoelectronic Platform (2021-2026)
- Figure 25. Product Picture of Surface-Mount Optical Module

Figure 26. Product Picture of LGA Socket-Mounted Optical Module

Figure 27. Product Picture of BGA-Mounted Optical Module

Figure 28. Product Picture of Screw-Fixed Optical Module

Figure 29. Product Picture of Board-Connector Pluggable Optical Module

Figure 30. Global COBO On-Board Optical Module Sales Market Share by Mounting Method in 2026

Figure 31. Global COBO On-Board Optical Module Revenue Market Share by Mounting Method (2021-2026)

Figure 32. COBO On-Board Optical Module Consumed in Data Center Switch Interconnect

Figure 33. Global COBO On-Board Optical Module Market: Data Center Switch Interconnect (2021-2026) & (K Units)

Figure 34. COBO On-Board Optical Module Consumed in Server Adapter Interconnect

Figure 35. Global COBO On-Board Optical Module Market: Server Adapter Interconnect (2021-2026) & (K Units)

Figure 36. COBO On-Board Optical Module Consumed in High-Performance Computing Interconnect

Figure 37. Global COBO On-Board Optical Module Market: High-Performance Computing Interconnect (2021-2026) & (K Units)

Figure 38. COBO On-Board Optical Module Consumed in Aerospace Embedded Interconnect

Figure 39. Global COBO On-Board Optical Module Market: Aerospace Embedded Interconnect (2021-2026) & (K Units)

Figure 40. COBO On-Board Optical Module Consumed in Industrial Embedded Interconnect

Figure 41. Global COBO On-Board Optical Module Market: Industrial Embedded Interconnect (2021-2026) & (K Units)

Figure 42. COBO On-Board Optical Module Consumed in Other

Figure 43. Global COBO On-Board Optical Module Market: Other (2021-2026) & (K Units)

Figure 44. Global COBO On-Board Optical Module Sale Market Share by Application (2025)

Figure 45. Global COBO On-Board Optical Module Revenue Market Share by Application in 2025

Figure 46. COBO On-Board Optical Module Sales by Company in 2025 (K Units)

Figure 47. Global COBO On-Board Optical Module Sales Market Share by Company in 2025

Figure 48. COBO On-Board Optical Module Revenue by Company in 2025 (\$ millions)

Figure 49. Global COBO On-Board Optical Module Revenue Market Share by Company

in 2025

Figure 50. Global COBO On-Board Optical Module Sales Market Share by Geographic Region (2021-2026)

Figure 51. Global COBO On-Board Optical Module Revenue Market Share by Geographic Region in 2025

Figure 52. Americas COBO On-Board Optical Module Sales 2021-2026 (K Units)

Figure 53. Americas COBO On-Board Optical Module Revenue 2021-2026 (\$ millions)

Figure 54. APAC COBO On-Board Optical Module Sales 2021-2026 (K Units)

Figure 55. APAC COBO On-Board Optical Module Revenue 2021-2026 (\$ millions)

Figure 56. Europe COBO On-Board Optical Module Sales 2021-2026 (K Units)

Figure 57. Europe COBO On-Board Optical Module Revenue 2021-2026 (\$ millions)

Figure 58. Middle East & Africa COBO On-Board Optical Module Sales 2021-2026 (K Units)

Figure 59. Middle East & Africa COBO On-Board Optical Module Revenue 2021-2026 (\$ millions)

Figure 60. Americas COBO On-Board Optical Module Sales Market Share by Country in 2025

Figure 61. Americas COBO On-Board Optical Module Revenue Market Share by Country (2021-2026)

Figure 62. Americas COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)

Figure 63. Americas COBO On-Board Optical Module Sales Market Share by Application (2021-2026)

Figure 64. United States COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 65. Canada COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 66. Mexico COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 67. Brazil COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 68. APAC COBO On-Board Optical Module Sales Market Share by Region in 2025

Figure 69. APAC COBO On-Board Optical Module Revenue Market Share by Region (2021-2026)

Figure 70. APAC COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)

Figure 71. APAC COBO On-Board Optical Module Sales Market Share by Application (2021-2026)

Figure 72. China COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 73. Japan COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Korea COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 75. Southeast Asia COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 76. India COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 77. Australia COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 78. China Taiwan COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 79. Europe COBO On-Board Optical Module Sales Market Share by Country in 2025

Figure 80. Europe COBO On-Board Optical Module Revenue Market Share by Country (2021-2026)

Figure 81. Europe COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)

Figure 82. Europe COBO On-Board Optical Module Sales Market Share by Application (2021-2026)

Figure 83. Germany COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 84. France COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 85. UK COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 86. Italy COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 87. Russia COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 88. Middle East & Africa COBO On-Board Optical Module Sales Market Share by Country (2021-2026)

Figure 89. Middle East & Africa COBO On-Board Optical Module Sales Market Share by Optical Medium (2021-2026)

Figure 90. Middle East & Africa COBO On-Board Optical Module Sales Market Share by Application (2021-2026)

Figure 91. Egypt COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 92. South Africa COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 93. Israel COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 94. Turkey COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 95. GCC Countries COBO On-Board Optical Module Revenue Growth 2021-2026 (\$ millions)

Figure 96. Manufacturing Cost Structure Analysis of COBO On-Board Optical Module in 2026

Figure 97. Manufacturing Process Analysis of COBO On-Board Optical Module

Figure 98. Industry Chain Structure of COBO On-Board Optical Module

Figure 99. Channels of Distribution

Figure 100. Global COBO On-Board Optical Module Sales Market Forecast by Region (2027-2032)

Figure 101. Global COBO On-Board Optical Module Revenue Market Share Forecast by Region (2027-2032)

Figure 102. Global COBO On-Board Optical Module Sales Market Share Forecast by Optical Medium (2027-2032)

Figure 103. Global COBO On-Board Optical Module Revenue Market Share Forecast by Optical Medium (2027-2032)

Figure 104. Global COBO On-Board Optical Module Sales Market Share Forecast by Application (2027-2032)

Figure 105. Global COBO On-Board Optical Module Revenue Market Share Forecast by Application (2027-2032)

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