

Global AI-focused Optical Transceiver Market Growth 2026-2032

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Abstracts

The global AI-focused Optical Transceiver market size is predicted to grow from US\$ 93.13 million in 2025 to US\$ 696 million in 2032; it is expected to grow at a CAGR of 24.6% from 2026 to 2032.

An AI-focused Optical Transceiver is a high-speed optical communication module specifically designed to support the extremely large bandwidth, low latency, and high port-density requirements of Artificial Intelligence (AI) infrastructure, including AI training clusters, AI inference clusters, hyperscale cloud data centers, and High-Performance Computing (HPC) systems.

Unlike traditional data center optical transceivers that primarily support general-purpose cloud and enterprise networking, AI-focused optical transceivers are optimized for massive east-west traffic generated by GPU-to-GPU, GPU-to-switch, and cluster-to-cluster communications.

In 2025, global AI-focused Optical Transceiver Lens sales volume reached approximately 0.27 million units, with an average price of approximately US\$ 350 per unit

United States market for AI-focused Optical Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI-focused Optical Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI-focused Optical Transceiver is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI-focused Optical Transceiver players cover Coherent, InnoLight Technology, Eoptolink Technology, Accelink Technologies, Cisco Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-focused Optical Transceiver 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 AI-focused Optical Transceiver.

This report presents a comprehensive overview, market shares, and growth opportunities of AI-focused Optical Transceiver market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

400G

800G

1.6T

Others

Segmentation by Product:

Coherent Optical Transceivers

Silicon Photonics Transceiver

Other

Segmentation by Application:

AI Storage Networks

Telecom AI Computing Centers

Hyperscale Cloud Data Centers

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.

Coherent

InnoLight Technology

Eoptolink Technology

Accelink Technologies

Cisco Systems

Lumentum Holdings

Applied Optoelectronics

Broadcom Inc.

Marvell Technology, Inc.

Intel Silicon Photonics

Jabil Inc.

Fabrinet

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI-focused Optical Transceiver market?

What factors are driving AI-focused Optical Transceiver market growth, globally and by region?

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

How do AI-focused Optical Transceiver market opportunities vary by end market size?

How does AI-focused Optical Transceiver break out by Type, 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 AI-focused Optical Transceiver Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for AI-focused Optical Transceiver by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for AI-focused Optical Transceiver by Country/Region, 2021, 2025 & 2032
- 2.2 AI-focused Optical Transceiver Segment by Type
 - 2.2.1 400G
 - 2.2.2 800G
 - 2.2.3 1.6T
 - 2.2.4 Others
 - 2.2.5 AI-focused Optical Transceiver Sales by Type
 - 2.2.5.1 Global AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global AI-focused Optical Transceiver Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global AI-focused Optical Transceiver Sale Price by Type (2021-2026)
- 2.3 AI-focused Optical Transceiver Segment by Product
 - 2.3.1 Coherent Optical Transceivers
 - 2.3.2 Silicon Photonics Transceiver
 - 2.3.3 Other
 - 2.3.4 AI-focused Optical Transceiver Sales by Product
 - 2.3.4.1 Global AI-focused Optical Transceiver Sales Market Share by Product (2021-2026)

2.3.4.2 Global AI-focused Optical Transceiver Revenue and Market Share by Product (2021-2026)

2.3.4.3 Global AI-focused Optical Transceiver Sale Price by Product (2021-2026)

2.4 AI-focused Optical Transceiver Segment by Application

2.4.1 AI Storage Networks

2.4.2 Telecom AI Computing Centers

2.4.3 Hyperscale Cloud Data Centers

2.4.4 Other

2.4.5 AI-focused Optical Transceiver Sales by Application

2.4.5.1 Global AI-focused Optical Transceiver Sale Market Share by Application (2021-2026)

2.4.5.2 Global AI-focused Optical Transceiver Revenue and Market Share by Application (2021-2026)

2.4.5.3 Global AI-focused Optical Transceiver Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global AI-focused Optical Transceiver Breakdown Data by Company

3.1.1 Global AI-focused Optical Transceiver Annual Sales by Company (2021-2026)

3.1.2 Global AI-focused Optical Transceiver Sales Market Share by Company (2021-2026)

3.2 Global AI-focused Optical Transceiver Annual Revenue by Company (2021-2026)

3.2.1 Global AI-focused Optical Transceiver Revenue by Company (2021-2026)

3.2.2 Global AI-focused Optical Transceiver Revenue Market Share by Company (2021-2026)

3.3 Global AI-focused Optical Transceiver Sale Price by Company

3.4 Key Manufacturers AI-focused Optical Transceiver Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AI-focused Optical Transceiver Product Location Distribution

3.4.2 Players AI-focused Optical Transceiver 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 AI-FOCUSED OPTICAL TRANSCEIVER BY GEOGRAPHIC REGION

4.1 World Historic AI-focused Optical Transceiver Market Size by Geographic Region (2021-2026)

4.1.1 Global AI-focused Optical Transceiver Annual Sales by Geographic Region (2021-2026)

4.1.2 Global AI-focused Optical Transceiver Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic AI-focused Optical Transceiver Market Size by Country/Region (2021-2026)

4.2.1 Global AI-focused Optical Transceiver Annual Sales by Country/Region (2021-2026)

4.2.2 Global AI-focused Optical Transceiver Annual Revenue by Country/Region (2021-2026)

4.3 Americas AI-focused Optical Transceiver Sales Growth

4.4 APAC AI-focused Optical Transceiver Sales Growth

4.5 Europe AI-focused Optical Transceiver Sales Growth

4.6 Middle East & Africa AI-focused Optical Transceiver Sales Growth

5 AMERICAS

5.1 Americas AI-focused Optical Transceiver Sales by Country

5.1.1 Americas AI-focused Optical Transceiver Sales by Country (2021-2026)

5.1.2 Americas AI-focused Optical Transceiver Revenue by Country (2021-2026)

5.2 Americas AI-focused Optical Transceiver Sales by Type (2021-2026)

5.3 Americas AI-focused Optical Transceiver Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC AI-focused Optical Transceiver Sales by Region

6.1.1 APAC AI-focused Optical Transceiver Sales by Region (2021-2026)

6.1.2 APAC AI-focused Optical Transceiver Revenue by Region (2021-2026)

6.2 APAC AI-focused Optical Transceiver Sales by Type (2021-2026)

6.3 APAC AI-focused Optical Transceiver 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 AI-focused Optical Transceiver by Country

7.1.1 Europe AI-focused Optical Transceiver Sales by Country (2021-2026)

7.1.2 Europe AI-focused Optical Transceiver Revenue by Country (2021-2026)

7.2 Europe AI-focused Optical Transceiver Sales by Type (2021-2026)

7.3 Europe AI-focused Optical Transceiver 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 AI-focused Optical Transceiver by Country

8.1.1 Middle East & Africa AI-focused Optical Transceiver Sales by Country (2021-2026)

8.1.2 Middle East & Africa AI-focused Optical Transceiver Revenue by Country (2021-2026)

8.2 Middle East & Africa AI-focused Optical Transceiver Sales by Type (2021-2026)

8.3 Middle East & Africa AI-focused Optical Transceiver 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 AI-focused Optical Transceiver
- 10.3 Manufacturing Process Analysis of AI-focused Optical Transceiver
- 10.4 Industry Chain Structure of AI-focused Optical Transceiver

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 AI-focused Optical Transceiver Distributors
- 11.3 AI-focused Optical Transceiver Customer

12 WORLD FORECAST REVIEW FOR AI-FOCUSED OPTICAL TRANSCEIVER BY GEOGRAPHIC REGION

- 12.1 Global AI-focused Optical Transceiver Market Size Forecast by Region
 - 12.1.1 Global AI-focused Optical Transceiver Forecast by Region (2027-2032)
 - 12.1.2 Global AI-focused Optical Transceiver 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 AI-focused Optical Transceiver Forecast by Type (2027-2032)
- 12.7 Global AI-focused Optical Transceiver Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Coherent
 - 13.1.1 Coherent Company Information
 - 13.1.2 Coherent AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.1.3 Coherent AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Coherent Main Business Overview
 - 13.1.5 Coherent Latest Developments

13.2 InnoLight Technology

13.2.1 InnoLight Technology Company Information

13.2.2 InnoLight Technology AI-focused Optical Transceiver Product Portfolios and Specifications

13.2.3 InnoLight Technology AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 InnoLight Technology Main Business Overview

13.2.5 InnoLight Technology Latest Developments

13.3 Eoptolink Technology

13.3.1 Eoptolink Technology Company Information

13.3.2 Eoptolink Technology AI-focused Optical Transceiver Product Portfolios and Specifications

13.3.3 Eoptolink Technology AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Eoptolink Technology Main Business Overview

13.3.5 Eoptolink Technology Latest Developments

13.4 Accelink Technologies

13.4.1 Accelink Technologies Company Information

13.4.2 Accelink Technologies AI-focused Optical Transceiver Product Portfolios and Specifications

13.4.3 Accelink Technologies AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Accelink Technologies Main Business Overview

13.4.5 Accelink Technologies Latest Developments

13.5 Cisco Systems

13.5.1 Cisco Systems Company Information

13.5.2 Cisco Systems AI-focused Optical Transceiver Product Portfolios and Specifications

13.5.3 Cisco Systems AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Cisco Systems Main Business Overview

13.5.5 Cisco Systems Latest Developments

13.6 Lumentum Holdings

13.6.1 Lumentum Holdings Company Information

13.6.2 Lumentum Holdings AI-focused Optical Transceiver Product Portfolios and Specifications

13.6.3 Lumentum Holdings AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Lumentum Holdings Main Business Overview

- 13.6.5 Lumentum Holdings Latest Developments
- 13.7 Applied Optoelectronics
 - 13.7.1 Applied Optoelectronics Company Information
 - 13.7.2 Applied Optoelectronics AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.7.3 Applied Optoelectronics AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Applied Optoelectronics Main Business Overview
 - 13.7.5 Applied Optoelectronics Latest Developments
- 13.8 Broadcom Inc.
 - 13.8.1 Broadcom Inc. Company Information
 - 13.8.2 Broadcom Inc. AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.8.3 Broadcom Inc. AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Broadcom Inc. Main Business Overview
 - 13.8.5 Broadcom Inc. Latest Developments
- 13.9 Marvell Technology, Inc.
 - 13.9.1 Marvell Technology, Inc. Company Information
 - 13.9.2 Marvell Technology, Inc. AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.9.3 Marvell Technology, Inc. AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Marvell Technology, Inc. Main Business Overview
 - 13.9.5 Marvell Technology, Inc. Latest Developments
- 13.10 Intel Silicon Photonics
 - 13.10.1 Intel Silicon Photonics Company Information
 - 13.10.2 Intel Silicon Photonics AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.10.3 Intel Silicon Photonics AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Intel Silicon Photonics Main Business Overview
 - 13.10.5 Intel Silicon Photonics Latest Developments
- 13.11 Jabil Inc.
 - 13.11.1 Jabil Inc. Company Information
 - 13.11.2 Jabil Inc. AI-focused Optical Transceiver Product Portfolios and Specifications
 - 13.11.3 Jabil Inc. AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Jabil Inc. Main Business Overview

13.11.5 Jabil Inc. Latest Developments

13.12 Fabrinet

13.12.1 Fabrinet Company Information

13.12.2 Fabrinet AI-focused Optical Transceiver Product Portfolios and Specifications

13.12.3 Fabrinet AI-focused Optical Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Fabrinet Main Business Overview

13.12.5 Fabrinet Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AI-focused Optical Transceiver Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AI-focused Optical Transceiver Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 400G

Table 4. Major Players of 800G

Table 5. Major Players of 1.6T

Table 6. Major Players of Others

Table 7. Global AI-focused Optical Transceiver Sales by Type (2021-2026) & (K Units)

Table 8. Global AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)

Table 9. Global AI-focused Optical Transceiver Revenue by Type (2021-2026) & (\$ million)

Table 10. Global AI-focused Optical Transceiver Revenue Market Share by Type (2021-2026)

Table 11. Global AI-focused Optical Transceiver Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Coherent Optical Transceivers

Table 13. Major Players of Silicon Photonics Transceiver

Table 14. Major Players of Other

Table 15. Global AI-focused Optical Transceiver Sales by Product (2021-2026) & (K Units)

Table 16. Global AI-focused Optical Transceiver Sales Market Share by Product (2021-2026)

Table 17. Global AI-focused Optical Transceiver Revenue by Product (2021-2026) & (\$ million)

Table 18. Global AI-focused Optical Transceiver Revenue Market Share by Product (2021-2026)

Table 19. Global AI-focused Optical Transceiver Sale Price by Product (2021-2026) & (US\$/Unit)

Table 20. Global AI-focused Optical Transceiver Sale by Application (2021-2026) & (K Units)

Table 21. Global AI-focused Optical Transceiver Sale Market Share by Application (2021-2026)

Table 22. Global AI-focused Optical Transceiver Revenue by Application (2021-2026) &

(\$ million)

Table 23. Global AI-focused Optical Transceiver Revenue Market Share by Application (2021-2026)

Table 24. Global AI-focused Optical Transceiver Sale Price by Application (2021-2026) & (US\$/Unit)

Table 25. Global AI-focused Optical Transceiver Sales by Company (2021-2026) & (K Units)

Table 26. Global AI-focused Optical Transceiver Sales Market Share by Company (2021-2026)

Table 27. Global AI-focused Optical Transceiver Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global AI-focused Optical Transceiver Revenue Market Share by Company (2021-2026)

Table 29. Global AI-focused Optical Transceiver Sale Price by Company (2021-2026) & (US\$/Unit)

Table 30. Key Manufacturers AI-focused Optical Transceiver Producing Area Distribution and Sales Area

Table 31. Players AI-focused Optical Transceiver Products Offered

Table 32. AI-focused Optical Transceiver Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global AI-focused Optical Transceiver Sales by Geographic Region (2021-2026) & (K Units)

Table 36. Global AI-focused Optical Transceiver Sales Market Share Geographic Region (2021-2026)

Table 37. Global AI-focused Optical Transceiver Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global AI-focused Optical Transceiver Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global AI-focused Optical Transceiver Sales by Country/Region (2021-2026) & (K Units)

Table 40. Global AI-focused Optical Transceiver Sales Market Share by Country/Region (2021-2026)

Table 41. Global AI-focused Optical Transceiver Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global AI-focused Optical Transceiver Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas AI-focused Optical Transceiver Sales by Country (2021-2026) & (K

Units)

Table 44. Americas AI-focused Optical Transceiver Sales Market Share by Country (2021-2026)

Table 45. Americas AI-focused Optical Transceiver Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas AI-focused Optical Transceiver Sales by Type (2021-2026) & (K Units)

Table 47. Americas AI-focused Optical Transceiver Sales by Application (2021-2026) & (K Units)

Table 48. APAC AI-focused Optical Transceiver Sales by Region (2021-2026) & (K Units)

Table 49. APAC AI-focused Optical Transceiver Sales Market Share by Region (2021-2026)

Table 50. APAC AI-focused Optical Transceiver Revenue by Region (2021-2026) & (\$ millions)

Table 51. APAC AI-focused Optical Transceiver Sales by Type (2021-2026) & (K Units)

Table 52. APAC AI-focused Optical Transceiver Sales by Application (2021-2026) & (K Units)

Table 53. Europe AI-focused Optical Transceiver Sales by Country (2021-2026) & (K Units)

Table 54. Europe AI-focused Optical Transceiver Revenue by Country (2021-2026) & (\$ millions)

Table 55. Europe AI-focused Optical Transceiver Sales by Type (2021-2026) & (K Units)

Table 56. Europe AI-focused Optical Transceiver Sales by Application (2021-2026) & (K Units)

Table 57. Middle East & Africa AI-focused Optical Transceiver Sales by Country (2021-2026) & (K Units)

Table 58. Middle East & Africa AI-focused Optical Transceiver Revenue Market Share by Country (2021-2026)

Table 59. Middle East & Africa AI-focused Optical Transceiver Sales by Type (2021-2026) & (K Units)

Table 60. Middle East & Africa AI-focused Optical Transceiver Sales by Application (2021-2026) & (K Units)

Table 61. Key Market Drivers & Growth Opportunities of AI-focused Optical Transceiver

Table 62. Key Market Challenges & Risks of AI-focused Optical Transceiver

Table 63. Key Industry Trends of AI-focused Optical Transceiver

Table 64. AI-focused Optical Transceiver Raw Material

Table 65. Key Suppliers of Raw Materials

Table 66. AI-focused Optical Transceiver Distributors List

Table 67. AI-focused Optical Transceiver Customer List

Table 68. Global AI-focused Optical Transceiver Sales Forecast by Region (2027-2032) & (K Units)

Table 69. Global AI-focused Optical Transceiver Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 70. Americas AI-focused Optical Transceiver Sales Forecast by Country (2027-2032) & (K Units)

Table 71. Americas AI-focused Optical Transceiver Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 72. APAC AI-focused Optical Transceiver Sales Forecast by Region (2027-2032) & (K Units)

Table 73. APAC AI-focused Optical Transceiver Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Europe AI-focused Optical Transceiver Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Europe AI-focused Optical Transceiver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Middle East & Africa AI-focused Optical Transceiver Sales Forecast by Country (2027-2032) & (K Units)

Table 77. Middle East & Africa AI-focused Optical Transceiver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. Global AI-focused Optical Transceiver Sales Forecast by Type (2027-2032) & (K Units)

Table 79. Global AI-focused Optical Transceiver Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 80. Global AI-focused Optical Transceiver Sales Forecast by Application (2027-2032) & (K Units)

Table 81. Global AI-focused Optical Transceiver Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 82. Coherent Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 83. Coherent AI-focused Optical Transceiver Product Portfolios and Specifications

Table 84. Coherent AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Coherent Main Business

Table 86. Coherent Latest Developments

Table 87. InnoLight Technology Basic Information, AI-focused Optical Transceiver

Manufacturing Base, Sales Area and Its Competitors

Table 88. InnoLight Technology AI-focused Optical Transceiver Product Portfolios and Specifications

Table 89. InnoLight Technology AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. InnoLight Technology Main Business

Table 91. InnoLight Technology Latest Developments

Table 92. Eoptolink Technology Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 93. Eoptolink Technology AI-focused Optical Transceiver Product Portfolios and Specifications

Table 94. Eoptolink Technology AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Eoptolink Technology Main Business

Table 96. Eoptolink Technology Latest Developments

Table 97. Accelink Technologies Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 98. Accelink Technologies AI-focused Optical Transceiver Product Portfolios and Specifications

Table 99. Accelink Technologies AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Accelink Technologies Main Business

Table 101. Accelink Technologies Latest Developments

Table 102. Cisco Systems Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 103. Cisco Systems AI-focused Optical Transceiver Product Portfolios and Specifications

Table 104. Cisco Systems AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Cisco Systems Main Business

Table 106. Cisco Systems Latest Developments

Table 107. Lumentum Holdings Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 108. Lumentum Holdings AI-focused Optical Transceiver Product Portfolios and Specifications

Table 109. Lumentum Holdings AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Lumentum Holdings Main Business

Table 111. Lumentum Holdings Latest Developments

Table 112. Applied Optoelectronics Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 113. Applied Optoelectronics AI-focused Optical Transceiver Product Portfolios and Specifications

Table 114. Applied Optoelectronics AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Applied Optoelectronics Main Business

Table 116. Applied Optoelectronics Latest Developments

Table 117. Broadcom Inc. Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 118. Broadcom Inc. AI-focused Optical Transceiver Product Portfolios and Specifications

Table 119. Broadcom Inc. AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Broadcom Inc. Main Business

Table 121. Broadcom Inc. Latest Developments

Table 122. Marvell Technology, Inc. Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 123. Marvell Technology, Inc. AI-focused Optical Transceiver Product Portfolios and Specifications

Table 124. Marvell Technology, Inc. AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Marvell Technology, Inc. Main Business

Table 126. Marvell Technology, Inc. Latest Developments

Table 127. Intel Silicon Photonics Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 128. Intel Silicon Photonics AI-focused Optical Transceiver Product Portfolios and Specifications

Table 129. Intel Silicon Photonics AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Intel Silicon Photonics Main Business

Table 131. Intel Silicon Photonics Latest Developments

Table 132. Jabil Inc. Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 133. Jabil Inc. AI-focused Optical Transceiver Product Portfolios and Specifications

Table 134. Jabil Inc. AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Jabil Inc. Main Business

Table 136. Jabil Inc. Latest Developments

Table 137. Fabrinet Basic Information, AI-focused Optical Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 138. Fabrinet AI-focused Optical Transceiver Product Portfolios and Specifications

Table 139. Fabrinet AI-focused Optical Transceiver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Fabrinet Main Business

Table 141. Fabrinet Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of AI-focused Optical Transceiver
- Figure 2. AI-focused Optical Transceiver Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global AI-focused Optical Transceiver Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global AI-focused Optical Transceiver Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. AI-focused Optical Transceiver Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. AI-focused Optical Transceiver Sales Market Share by Country/Region (2025)
- Figure 10. AI-focused Optical Transceiver Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 400G
- Figure 12. Product Picture of 800G
- Figure 13. Product Picture of 1.6T
- Figure 14. Product Picture of Others
- Figure 15. Global AI-focused Optical Transceiver Sales Market Share by Type in 2026
- Figure 16. Global AI-focused Optical Transceiver Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Coherent Optical Transceivers
- Figure 18. Product Picture of Silicon Photonics Transceiver
- Figure 19. Product Picture of Other
- Figure 20. Global AI-focused Optical Transceiver Sales Market Share by Product in 2026
- Figure 21. Global AI-focused Optical Transceiver Revenue Market Share by Product (2021-2026)
- Figure 22. AI-focused Optical Transceiver Consumed in AI Storage Networks
- Figure 23. Global AI-focused Optical Transceiver Market: AI Storage Networks (2021-2026) & (K Units)
- Figure 24. AI-focused Optical Transceiver Consumed in Telecom AI Computing Centers
- Figure 25. Global AI-focused Optical Transceiver Market: Telecom AI Computing Centers (2021-2026) & (K Units)
- Figure 26. AI-focused Optical Transceiver Consumed in Hyperscale Cloud Data Centers
- Figure 27. Global AI-focused Optical Transceiver Market: Hyperscale Cloud Data

Centers (2021-2026) & (K Units)

Figure 28. AI-focused Optical Transceiver Consumed in Other

Figure 29. Global AI-focused Optical Transceiver Market: Other (2021-2026) & (K Units)

Figure 30. Global AI-focused Optical Transceiver Sale Market Share by Application (2025)

Figure 31. Global AI-focused Optical Transceiver Revenue Market Share by Application in 2025

Figure 32. AI-focused Optical Transceiver Sales by Company in 2025 (K Units)

Figure 33. Global AI-focused Optical Transceiver Sales Market Share by Company in 2025

Figure 34. AI-focused Optical Transceiver Revenue by Company in 2025 (\$ millions)

Figure 35. Global AI-focused Optical Transceiver Revenue Market Share by Company in 2025

Figure 36. Global AI-focused Optical Transceiver Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global AI-focused Optical Transceiver Revenue Market Share by Geographic Region in 2025

Figure 38. Americas AI-focused Optical Transceiver Sales 2021-2026 (K Units)

Figure 39. Americas AI-focused Optical Transceiver Revenue 2021-2026 (\$ millions)

Figure 40. APAC AI-focused Optical Transceiver Sales 2021-2026 (K Units)

Figure 41. APAC AI-focused Optical Transceiver Revenue 2021-2026 (\$ millions)

Figure 42. Europe AI-focused Optical Transceiver Sales 2021-2026 (K Units)

Figure 43. Europe AI-focused Optical Transceiver Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa AI-focused Optical Transceiver Sales 2021-2026 (K Units)

Figure 45. Middle East & Africa AI-focused Optical Transceiver Revenue 2021-2026 (\$ millions)

Figure 46. Americas AI-focused Optical Transceiver Sales Market Share by Country in 2025

Figure 47. Americas AI-focused Optical Transceiver Revenue Market Share by Country (2021-2026)

Figure 48. Americas AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)

Figure 49. Americas AI-focused Optical Transceiver Sales Market Share by Application (2021-2026)

Figure 50. United States AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC AI-focused Optical Transceiver Sales Market Share by Region in 2025

Figure 55. APAC AI-focused Optical Transceiver Revenue Market Share by Region (2021-2026)

Figure 56. APAC AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)

Figure 57. APAC AI-focused Optical Transceiver Sales Market Share by Application (2021-2026)

Figure 58. China AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 62. India AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe AI-focused Optical Transceiver Sales Market Share by Country in 2025

Figure 66. Europe AI-focused Optical Transceiver Revenue Market Share by Country (2021-2026)

Figure 67. Europe AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)

Figure 68. Europe AI-focused Optical Transceiver Sales Market Share by Application (2021-2026)

Figure 69. Germany AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 70. France AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$

millions)

Figure 74. Middle East & Africa AI-focused Optical Transceiver Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa AI-focused Optical Transceiver Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa AI-focused Optical Transceiver Sales Market Share by Application (2021-2026)

Figure 77. Egypt AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries AI-focused Optical Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of AI-focused Optical Transceiver in 2026

Figure 83. Manufacturing Process Analysis of AI-focused Optical Transceiver

Figure 84. Industry Chain Structure of AI-focused Optical Transceiver

Figure 85. Channels of Distribution

Figure 86. Global AI-focused Optical Transceiver Sales Market Forecast by Region (2027-2032)

Figure 87. Global AI-focused Optical Transceiver Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global AI-focused Optical Transceiver Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global AI-focused Optical Transceiver Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global AI-focused Optical Transceiver Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global AI-focused Optical Transceiver Revenue Market Share Forecast by Application (2027-2032)

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