

# Coherent Optical Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/C3B303432BCCEN.html>

Date: November 2023

Pages: 147

Price: US\$ 2,499.00 (Single User License)

ID: C3B303432BCCEN

## Abstracts

The global coherent optical equipment market size reached US\$ 25.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 40.3 Billion by 2028, exhibiting a growth rate (CAGR) of 8.1% during 2022-2028.

Coherent optical equipment provides performance flexibility to transmit high-speed information. It relies on digital signal processing at both the transmitter and receiver to offers high bitrates, simple photonic line systems, and better performance. It enables network programmability by supporting different baud rates and modulation formats, thereby delivering enhanced data throughput at a lower cost per bit. At present, several leading players are offering innovative, coherent optical solutions that provide high levels of automation and intelligence.

Coherent Optical Equipment Market Trends:

Due to the increasing penetration of the internet and boosting sales of smartphones, there is a considerable rise in high bandwidth requirements for streaming high definition (HD) video and audio. This represents one of the significant factors catalyzing the demand for coherent optical equipment to minimize latency issues and provide smooth transmission of data. Moreover, the wide adoption of cloud-based solutions in core business processes is driving massive scale and unpredictable traffic patterns. This is further increasing the utilization of coherent optical equipment to manage rapid network scalability. Additionally, automation in industrial processes is positively influencing the demand for 5G infrastructure to improve operational productivity and precision, which, in turn, is contributing to market growth. Apart from this, security agencies worldwide are increasing their defense budgets on account of the rising cross-border security issues. As a result, army research laboratories are developing coherent optical phased array technologies that enable scalable laser weapons. This, along with the rising demand for high-capacity games and on-demand content, is increasing the adoption of coherent

optical equipment around the world. Furthermore, technological advancement in artificial intelligence (AI) and machine learning (ML) is projected to impel market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global coherent optical equipment market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, equipment, application and end user.

Breakup by Technology:

100G

200G

400G+

400G ZR

Breakup by Equipment:

Wavelength-Division Multiplexer (WDM)

Modules/Chips

Test and Measurement Equipment

Optical Amplifiers

Optical Switches

Others

Breakup by Application:

Networking

Data Center

Original Equipment Manufacturers (OEMs)

Breakup by End User:

Service Provider

Public Sector

Industries

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others

Latin America  
Brazil  
Mexico  
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Acacia Communications Inc. (Cisco Systems Inc), Ciena Corporation, Fujitsu Limited, Huawei Technologies Co. Ltd., Infinera Corporation, NEC Corporation, Nokia Oyj, Ribbon Communications Operating Company Inc., ZTE Corporation and Zygo Corporation (AMETEK Inc).

Key Questions Answered in This Report:

How has the global coherent optical equipment market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global coherent optical equipment market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the equipment?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global coherent optical equipment market and who are the key players?

What is the degree of competition in the industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL COHERENT OPTICAL EQUIPMENT MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TECHNOLOGY**

- 6.1 100G
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 200G
  - 6.2.1 Market Trends

- 6.2.2 Market Forecast
- 6.3 400G+
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 400G ZR
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY EQUIPMENT**

- 7.1 Wavelength-Division Multiplexer (WDM)
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Modules/Chips
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Test and Measurement Equipment
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Optical Amplifiers
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Optical Switches
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast
- 7.6 Others
  - 7.6.1 Market Trends
  - 7.6.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Networking
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Data Center
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Original Equipment Manufacturers (OEMs)
  - 8.3.1 Market Trends

### 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY END USER**

### 9.1 Service Provider

#### 9.1.1 Market Trends

#### 9.1.2 Market Forecast

### 9.2 Public Sector

#### 9.2.1 Market Trends

#### 9.2.2 Market Forecast

### 9.3 Industries

#### 9.3.1 Market Trends

#### 9.3.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

### 10.1 North America

#### 10.1.1 United States

##### 10.1.1.1 Market Trends

##### 10.1.1.2 Market Forecast

#### 10.1.2 Canada

##### 10.1.2.1 Market Trends

##### 10.1.2.2 Market Forecast

### 10.2 Asia-Pacific

#### 10.2.1 China

##### 10.2.1.1 Market Trends

##### 10.2.1.2 Market Forecast

#### 10.2.2 Japan

##### 10.2.2.1 Market Trends

##### 10.2.2.2 Market Forecast

#### 10.2.3 India

##### 10.2.3.1 Market Trends

##### 10.2.3.2 Market Forecast

#### 10.2.4 South Korea

##### 10.2.4.1 Market Trends

##### 10.2.4.2 Market Forecast

#### 10.2.5 Australia

##### 10.2.5.1 Market Trends

##### 10.2.5.2 Market Forecast

- 10.2.6 Indonesia
  - 10.2.6.1 Market Trends
  - 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 France
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 United Kingdom
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 Italy
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Spain
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Russia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa

- 10.5.1 Market Trends
- 10.5.2 Market Breakup by Country
- 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
  - 15.3.1 Acacia Communications Inc. (Cisco Systems Inc)
    - 15.3.1.1 Company Overview
    - 15.3.1.2 Product Portfolio
  - 15.3.2 Ciena Corporation
    - 15.3.2.1 Company Overview
    - 15.3.2.2 Product Portfolio
    - 15.3.2.3 Financials



- 15.3.3 Fujitsu Limited
  - 15.3.3.1 Company Overview
  - 15.3.3.2 Product Portfolio
  - 15.3.3.3 Financials
  - 15.3.3.4 SWOT Analysis
- 15.3.4 Huawei Technologies Co. Ltd.
  - 15.3.4.1 Company Overview
  - 15.3.4.2 Product Portfolio
- 15.3.5 Infinera Corporation
  - 15.3.5.1 Company Overview
  - 15.3.5.2 Product Portfolio
  - 15.3.5.3 Financials
- 15.3.6 NEC Corporation
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
  - 15.3.6.3 Financials
  - 15.3.6.4 SWOT Analysis
- 15.3.7 Nokia Oyj
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 Financials
  - 15.3.7.4 SWOT Analysis
- 15.3.8 Ribbon Communications Operating Company Inc.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
  - 15.3.8.3 Financials
  - 15.3.8.4 SWOT Analysis
- 15.3.9 ZTE Corporation
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
- 15.3.10 Zygo Corporation (AMETEK Inc)
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Coherent Optical Equipment Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Coherent Optical Equipment Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 3: Global: Coherent Optical Equipment Market Forecast: Breakup by Equipment (in Million US\$), 2023-2028

Table 4: Global: Coherent Optical Equipment Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Coherent Optical Equipment Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 6: Global: Coherent Optical Equipment Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Coherent Optical Equipment Market: Competitive Structure

Table 8: Global: Coherent Optical Equipment Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Coherent Optical Equipment Market: Major Drivers and Challenges

Figure 2: Global: Coherent Optical Equipment Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Coherent Optical Equipment Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Coherent Optical Equipment Market: Breakup by Technology (in %), 2022

Figure 5: Global: Coherent Optical Equipment Market: Breakup by Equipment (in %), 2022

Figure 6: Global: Coherent Optical Equipment Market: Breakup by Application (in %), 2022

Figure 7: Global: Coherent Optical Equipment Market: Breakup by End User (in %), 2022

Figure 8: Global: Coherent Optical Equipment Market: Breakup by Region (in %), 2022

Figure 9: Global: Coherent Optical Equipment (100G) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Coherent Optical Equipment (100G) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Coherent Optical Equipment (200G) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Coherent Optical Equipment (200G) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Coherent Optical Equipment (400G+) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Coherent Optical Equipment (400G+) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Coherent Optical Equipment (400G ZR) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Coherent Optical Equipment (400G ZR) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Coherent Optical Equipment (Wavelength-Division Multiplexer (WDM)) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Coherent Optical Equipment (Wavelength-Division Multiplexer (WDM)) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Coherent Optical Equipment (Modules/Chips) Market: Sales Value (in

Million US\$), 2017 & 2022

Figure 20: Global: Coherent Optical Equipment (Modules/Chips) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Coherent Optical Equipment (Test and Measurement Equipment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Coherent Optical Equipment (Test and Measurement Equipment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Coherent Optical Equipment (Optical Amplifiers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Coherent Optical Equipment (Optical Amplifiers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Coherent Optical Equipment (Optical Switches) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Coherent Optical Equipment (Optical Switches) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Coherent Optical Equipment (Other Equipments) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Coherent Optical Equipment (Other Equipments) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Coherent Optical Equipment (Networking) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Coherent Optical Equipment (Networking) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Coherent Optical Equipment (Data Center) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Coherent Optical Equipment (Data Center) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Coherent Optical Equipment (Original Equipment Manufacturers (OEMs)) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Coherent Optical Equipment (Original Equipment Manufacturers (OEMs)) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Coherent Optical Equipment (Service Provider) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Coherent Optical Equipment (Service Provider) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Coherent Optical Equipment (Public Sector) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Coherent Optical Equipment (Public Sector) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Coherent Optical Equipment (Industries) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Coherent Optical Equipment (Industries) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: North America: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: North America: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: United States: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: United States: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Canada: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Canada: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Asia-Pacific: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Asia-Pacific: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: China: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: China: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Japan: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Japan: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: India: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: India: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: South Korea: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: South Korea: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Australia: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Australia: Coherent Optical Equipment Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 59: Indonesia: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Indonesia: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Others: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Others: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Europe: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Europe: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Germany: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Germany: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: France: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: France: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: United Kingdom: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: United Kingdom: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Italy: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Italy: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Spain: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Spain: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Russia: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Russia: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Others: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Others: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Latin America: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Latin America: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Brazil: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Brazil: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Mexico: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Mexico: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Others: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Others: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Middle East and Africa: Coherent Optical Equipment Market: Sales Value (in Million US\$), 2017 & 2022

Figure 88: Middle East and Africa: Coherent Optical Equipment Market: Breakup by Country (in %), 2022

Figure 89: Middle East and Africa: Coherent Optical Equipment Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 90: Global: Coherent Optical Equipment Industry: SWOT Analysis

Figure 91: Global: Coherent Optical Equipment Industry: Value Chain Analysis

Figure 92: Global: Coherent Optical Equipment Industry: Porter's Five Forces Analysis

## I would like to order

Product name: Coherent Optical Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/C3B303432BCCEN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C3B303432BCCEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



