

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

Market Report | 2023-11-02 | 147 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$2499.00
- Five User Licence \$3499.00
- Enterprisewide License \$4499.00

Report description:

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.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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?

Table of 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 4.2Key Industry Trends
- 5 Global Coherent Optical Equipment Market
 - 5.1Market Overview
 - 5.2Market Performance
 - 5.3Impact of COVID-19
 - 5.4Market Forecast
- 6 Market Breakup by Technology
 - 6.1100G
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2200G
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3400G+
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
 - 6.4400G ZR
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 7 Market Breakup by Equipment
 - 7.1Wavelength-Division Multiplexer (WDM)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2Modules/Chips
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3Test and Measurement Equipment
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4Optical Amplifiers
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5Optical Switches
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
 - 7.6Others
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 8 Market Breakup by Application
 - 8.1Networking
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2Data Center
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3Original Equipment Manufacturers (OEMs)
 - 8.3.1 Market Trends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.3.2 Market Forecast
- 9 Market Breakup by End User
 - 9.1Service Provider
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
 - 9.2Public Sector
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
 - 9.3Industries
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 10 Market Breakup by Region
 - 10.1North 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
 - 10.2Asia-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
 - 10.3Europe
 - 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 15.2Key Players
- 15.3Profiles of Key Players
 - 15.3.1Acacia Communications Inc. (Cisco Systems Inc)
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.2Ciena Corporation
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.3Fujitsu Limited
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4Huawei Technologies Co. Ltd.
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.5Infinera Corporation
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.6NEC Corporation
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
 - 15.3.7Nokia Oyj
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
 - 15.3.8Ribbon 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
 - 15.3.9ZTE Corporation
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.10Zygo Corporation (AMETEK Inc)
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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

Market Report | 2023-11-02 | 147 pages | IMARC Group

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$2499.00
	Five User Licence	\$3499.00
	Enterprisewide License	\$4499.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-04"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com