

# Coherent Optical Communication Equipment Industry Research Report 2023

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## Abstracts

Coherent optical communication equipment includes semiconductor lasers and photodiodes for optical transceiver modules and board level design, as well as wavelength-tunable lasers and optical receivers for optical coherent communication devices in the backbone systems.

Coherent optical communication involves the following key technologies:

**Polarization multiplexing and higher-order modulation:** the orthogonal polarization characteristics and phase information of light are used to divide the original signal into two signals for multiple times, which greatly reduces the electrical-layer processing rate required.

**Coherent receiver technology:** a local oscillator laser that has the same frequency as the received signal is used to implement interference between the laser signal and the received signal to restore the amplitude, phase, and polarization state information from the received signal.

**DSP technology:** the DSP technology is used to resolve signal distortion and latency problems caused by dispersion at the electrical signal layer. It compensates for PMD and CD, greatly improving the PMD and CD tolerance.

**High-performance FEC algorithm:** FEC is used to improve the OSNR tolerance of the system. Different FEC types and overhead ratios can be designed for different rates, modulation formats, and transmission performance requirements.

## Highlights

The global Coherent Optical Communication Equipment market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2023, at a CAGR of % during 2024 and 2029.

Global key players of Coherent Optical Communication Equipment include Huawei Technologies, Ciena, Cisco Systems(Acacia), Nokia and Infinera Corporation, etc. Top three players occupy for a share about 65%. Asia-Pacific is the largest market, with a share about 40%, followed by North America and Europe. In terms of product, 400 Gbps Coherent Optical Equipment is the largest segment, with a share over 38%. In terms of application, Long Haul is the largest market, with a share over 53%.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Coherent Optical Communication Equipment, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Coherent Optical Communication Equipment.

The Coherent Optical Communication Equipment market size, estimations, and forecasts are provided in terms of and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Coherent Optical Communication Equipment market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Coherent Optical Communication Equipment companies, new entrants, and industry chain related companies in this market with information on the revenues for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue by companies for the period 2017-2022. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Huawei Technologies

Ciena

Cisco Systems(Acacia)

Nokia

Infinera Corporation

ZTE

NEC Corporation

ADVA Optical Networking

## Product Type Insights

Global markets are presented by Coherent Optical Communication Equipment type, along with growth forecasts through 2029. Estimates on revenue are based on the price in the supply chain at which the Coherent Optical Communication Equipment are procured by the companies.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

## Coherent Optical Communication Equipment segment by Type

100 Gbps

200 Gbps

400 Gbps

600 Gbps & 800 Gbps

## Application Insights

This report has provided the market size (revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Coherent Optical Communication Equipment market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Coherent Optical Communication Equipment market.

## Coherent Optical Communication Equipment Segment by Application

Long Haul

Metro

Data Center Interconnect

Other

## Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the

particular region/country. The readers will also get their hands on the revenue data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America, Middle East & Africa. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with estimates for 2023 and forecast revenue for 2029.

## North America

- United States

- Canada

## Europe

- Germany

- France

- UK

- Italy

- Russia

- Nordic Countries

- Rest of Europe

## Asia-Pacific

- China

- Japan

- South Korea

Southeast Asia

India

Australia

Rest of Asia

Latin America

Mexico

Brazil

Rest of Latin America

Middle East & Africa

Turkey

Saudi Arabia

UAE

Rest of MEA

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Coherent Optical Communication

Equipment market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

### Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Coherent Optical Communication Equipment market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Coherent Optical Communication Equipment and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Coherent Optical Communication Equipment industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Coherent Optical Communication Equipment.

This report helps stakeholders to identify some of the key players in the market and

understand their valuable contribution.

## Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Provides the analysis of various market segments product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 4: Provides the analysis of various market segments application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 5: Introduces executive summary of global market size, regional market size, this section also introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by companies in the industry, and the analysis of relevant policies in the industry.

Chapter 6: Detailed analysis of Coherent Optical Communication Equipment companies' competitive landscape, revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 7, 8, 9, 10, 11: North America, Europe, Asia Pacific, Latin America, Middle East and Africa segment by country. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 12: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.



Chapter 13: The main points and conclusions of the report.

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