



Global Plasmonic Modulators Market by Size, by Type, by Application, by Region, History and Forecast 2021-2032

Industry	Published	Pages	Format
Electronics & Semiconductor	2026-07-05	191	PDF

Single User	Multi User	Enterprise
USD 3,950	USD 5,925	USD 7,900

Description

The global Plasmonic Modulators market is projected to grow from US\$ million in 2026 to US\$ million by 2032, implying a CAGR of % over 2026-2032.

The US & Canada market for Plasmonic Modulators is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

The Europe market for Plasmonic Modulators is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

The Asia Pacific market for Plasmonic Modulators is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

The China market for Plasmonic Modulators is projected to increase from US\$ million in 2026 to US\$ million by 2032, at a CAGR of % over 2026-2032.

Leading global manufacturers of Plasmonic Modulators include Intel, IBM, Cisco, Marvell, Lumentum, Coherent, STMicroelectronics, GlobalFoundries and Hamamatsu Photonics, among others. In 2025, the top three vendors together accounted for approximately % of global revenue.

On the production side, the report examines Plasmonic Modulators output, growth rates, and market shares by manufacturer and by region (at regional and country level) for 2021-2026, with forecasts through 2032.

On the consumption side, the report analyzes sales of Plasmonic Modulators by region (regional and country level), company, type, and application for 2021-2026 and provides forecasts through 2032.

The report provides an overview of the global Plasmonic Modulators market in terms of capacity, output, revenue, and price, analyzing global market trends using historical revenue and sales data for 2021-2025, estimates for 2026, and projected CAGRs through 2032.

The study covers key producers of Plasmonic Modulators and consumption patterns in major regions and countries, assesses future market potential, and highlights priority regions and countries for segmenting the market into sub-sectors, with country-specific market value data for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, the Middle East, Africa, and other countries.

The report also presents Plasmonic Modulators sales, revenue, market share, and industry ranking for the main manufacturers for 2021-2026, identifies the major stakeholders in the global market, and analyzes their competitive landscape and market positioning based on recent developments and segmental revenues.

In addition, the report analyzes segment data by type and application—covering sales, revenue, and price—for 2021-2032, and evaluates and forecasts the Plasmonic Modulators market size, projected growth trends, production technologies, key applications, and end-use industries.

Plasmonic Modulators Segment by Company

Intel

IBM

Cisco

Marvell

Lumentum

Coherent

STMicroelectronics

GlobalFoundries

Hamamatsu Photonics

Broadcom

MACOM

Rockley Photonics

HyperLight

Lightmatter

Lightwave Logic

Ayar Labs

DustPhotonics

Optalysys

Optoscribe

Plasmonic Modulators Segment by Type

Silicon–Plasmonic Modulators

Graphene–Plasmonic Modulators

TFLN–Plasmonic Modulators

EO Polymer–Plasmonic Modulators

PCM–Plasmonic Modulators

Plasmonic Modulators Segment by Application

Data Centers

5G/6G Networks

High-Performance Computing

Others

Plasmonic Modulators Segment by Region

North America

United States

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Spain

Netherlands

Switzerland

Sweden

Poland

Asia-Pacific

China

Japan

South Korea

India

Australia

Taiwan

Southeast Asia

South America

Brazil

Argentina

Chile

Middle East & Africa

Egypt

South Africa

Israel

Türkiye

GCC Countries

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. 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 Plasmonic Modulators 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.
2. This report will help stakeholders to understand the global industry status and trends of Plasmonic Modulators and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. 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.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Plasmonic Modulators.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Provides an overview of the Plasmonic Modulators market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2021-2032).

Chapter 2:

Analysis key trends, drivers, challenges, and opportunities within the global Plasmonic Modulators industry.

Chapter 3:

Detailed analysis of Plasmonic Modulators market competition landscape. Including Plasmonic Modulators manufacturers' output value, output and average price from 2021 to 2026, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4:

Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5:

Provides the analysis of various market segments by 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 6:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7:

Production/Production Value of Plasmonic Modulators by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8:

Consumption of Plasmonic Modulators in regional level and country level. 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 production of each country in the world.

Chapter 9:

Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10:

Concluding Insights of the report.

Table of Contents

1 Market Overview

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Plasmonic Modulators Production Value Estimates and Forecasts (2021-2032)
 - 1.2.2 Global Plasmonic Modulators Production Capacity Estimates and Forecasts (2021-2032)
 - 1.2.3 Global Plasmonic Modulators Production Estimates and Forecasts (2021-2032)
 - 1.2.4 Global Plasmonic Modulators Market Average Price (2021-2032)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 Global Plasmonic Modulators Market Dynamics

- 2.1 Plasmonic Modulators Industry Trends
- 2.2 Plasmonic Modulators Industry Drivers
- 2.3 Plasmonic Modulators Industry Opportunities and Challenges
- 2.4 Plasmonic Modulators Industry Restraints

3 Plasmonic Modulators Market by Manufacturers

- 3.1 Global Plasmonic Modulators Production Value by Manufacturers (2021-2026)
- 3.2 Global Plasmonic Modulators Production by Manufacturers (2021-2026)
- 3.3 Global Plasmonic Modulators Average Price by Manufacturers (2021-2026)
- 3.4 Global Plasmonic Modulators Industry Manufacturers Ranking, 2024 VS 2025 VS 2026
- 3.5 Global Plasmonic Modulators Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Plasmonic Modulators Manufacturers, Product Type & Application
- 3.7 Global Plasmonic Modulators Manufacturers Established Date
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Plasmonic Modulators Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Plasmonic Modulators Players Market Share by Production Value in 2025
 - 3.8.3 2025 Plasmonic Modulators Tier 1, Tier 2, and Tier 3

4 Plasmonic Modulators Market by Type

- 4.1 Plasmonic Modulators Type Introduction
 - 4.1.1 Silicon–Plasmonic Modulators
 - 4.1.2 Graphene–Plasmonic Modulators
 - 4.1.3 TFLN–Plasmonic Modulators
 - 4.1.4 EO Polymer–Plasmonic Modulators
 - 4.1.5 PCM–Plasmonic Modulators
- 4.2 Global Plasmonic Modulators Production by Type
 - 4.2.1 Global Plasmonic Modulators Production by Type (2021 VS 2025 VS 2032)
 - 4.2.2 Global Plasmonic Modulators Production by Type (2021-2032)
 - 4.2.3 Global Plasmonic Modulators Production Market Share by Type (2021-2032)
- 4.3 Global Plasmonic Modulators Production Value by Type
 - 4.3.1 Global Plasmonic Modulators Production Value by Type (2021 VS 2025 VS 2032)
 - 4.3.2 Global Plasmonic Modulators Production Value by Type (2021-2032)
 - 4.3.3 Global Plasmonic Modulators Production Value Market Share by Type (2021-2032)

5 Plasmonic Modulators Market by Application

- 5.1 Plasmonic Modulators Application Introduction
 - 5.1.1 Data Centers
 - 5.1.2 5G/6G Networks
 - 5.1.3 High-Performance Computing
 - 5.1.4 Others
 - 5.2 Global Plasmonic Modulators Production by Application
 - 5.2.1 Global Plasmonic Modulators Production by Application (2021 VS 2025 VS 2032)
 - 5.2.2 Global Plasmonic Modulators Production by Application (2021-2032)
 - 5.2.3 Global Plasmonic Modulators Production Market Share by Application (2021-2032)
 - 5.3 Global Plasmonic Modulators Production Value by Application
 - 5.3.1 Global Plasmonic Modulators Production Value by Application (2021 VS 2025 VS 2032)
 - 5.3.2 Global Plasmonic Modulators Production Value by Application (2021-2032)
 - 5.3.3 Global Plasmonic Modulators Production Value Market Share by Application (2021-2032)
-

6 Company Profiles

- 6.1 Intel
 - 6.1.1 Intel Company Information
 - 6.1.2 Intel Business Overview
 - 6.1.3 Intel Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
 - 6.1.4 Intel Plasmonic Modulators Product Portfolio
 - 6.1.5 Intel Recent Developments
- 6.2 IBM
 - 6.2.1 IBM Company Information
 - 6.2.2 IBM Business Overview
 - 6.2.3 IBM Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
 - 6.2.4 IBM Plasmonic Modulators Product Portfolio
 - 6.2.5 IBM Recent Developments
- 6.3 Cisco
 - 6.3.1 Cisco Company Information
 - 6.3.2 Cisco Business Overview
 - 6.3.3 Cisco Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
 - 6.3.4 Cisco Plasmonic Modulators Product Portfolio
 - 6.3.5 Cisco Recent Developments
- 6.4 Marvell
 - 6.4.1 Marvell Company Information
 - 6.4.2 Marvell Business Overview
 - 6.4.3 Marvell Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
 - 6.4.4 Marvell Plasmonic Modulators Product Portfolio
 - 6.4.5 Marvell Recent Developments
- 6.5 Lumentum
 - 6.5.1 Lumentum Company Information
 - 6.5.2 Lumentum Business Overview
 - 6.5.3 Lumentum Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
 - 6.5.4 Lumentum Plasmonic Modulators Product Portfolio
 - 6.5.5 Lumentum Recent Developments
- 6.6 Coherent
 - 6.6.1 Coherent Company Information
 - 6.6.2 Coherent Business Overview
 - 6.6.3 Coherent Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.6.4 Coherent Plasmonic Modulators Product Portfolio

6.6.5 Coherent Recent Developments

6.7 STMicroelectronics

6.7.1 STMicroelectronics Company Information

6.7.2 STMicroelectronics Business Overview

6.7.3 STMicroelectronics Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.7.4 STMicroelectronics Plasmonic Modulators Product Portfolio

6.7.5 STMicroelectronics Recent Developments

6.8 GlobalFoundries

6.8.1 GlobalFoundries Company Information

6.8.2 GlobalFoundries Business Overview

6.8.3 GlobalFoundries Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.8.4 GlobalFoundries Plasmonic Modulators Product Portfolio

6.8.5 GlobalFoundries Recent Developments

6.9 Hamamatsu Photonics

6.9.1 Hamamatsu Photonics Company Information

6.9.2 Hamamatsu Photonics Business Overview

6.9.3 Hamamatsu Photonics Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.9.4 Hamamatsu Photonics Plasmonic Modulators Product Portfolio

6.9.5 Hamamatsu Photonics Recent Developments

6.10 Broadcom

6.10.1 Broadcom Company Information

6.10.2 Broadcom Business Overview

6.10.3 Broadcom Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.10.4 Broadcom Plasmonic Modulators Product Portfolio

6.10.5 Broadcom Recent Developments

6.11 MACOM

6.11.1 MACOM Company Information

6.11.2 MACOM Business Overview

6.11.3 MACOM Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.11.4 MACOM Plasmonic Modulators Product Portfolio

6.11.5 MACOM Recent Developments

6.12 Rockley Photonics

6.12.1 Rockley Photonics Company Information

6.12.2 Rockley Photonics Business Overview

6.12.3 Rockley Photonics Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.12.4 Rockley Photonics Plasmonic Modulators Product Portfolio

6.12.5 Rockley Photonics Recent Developments

6.13 HyperLight

6.13.1 HyperLight Company Information

6.13.2 HyperLight Business Overview

6.13.3 HyperLight Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.13.4 HyperLight Plasmonic Modulators Product Portfolio

6.13.5 HyperLight Recent Developments

6.14 Lightmatter

6.14.1 Lightmatter Company Information

6.14.2 Lightmatter Business Overview

6.14.3 Lightmatter Plasmonic Modulators Production, Value and Gross Margin (2021-2026)

6.14.4	Lightmatter Plasmonic Modulators Product Portfolio
6.14.5	Lightmatter Recent Developments
6.15	Lightwave Logic
6.15.1	Lightwave Logic Company Information
6.15.2	Lightwave Logic Business Overview
6.15.3	Lightwave Logic Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
6.15.4	Lightwave Logic Plasmonic Modulators Product Portfolio
6.15.5	Lightwave Logic Recent Developments
6.16	Ayar Labs
6.16.1	Ayar Labs Company Information
6.16.2	Ayar Labs Business Overview
6.16.3	Ayar Labs Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
6.16.4	Ayar Labs Plasmonic Modulators Product Portfolio
6.16.5	Ayar Labs Recent Developments
6.17	DustPhotonics
6.17.1	DustPhotonics Company Information
6.17.2	DustPhotonics Business Overview
6.17.3	DustPhotonics Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
6.17.4	DustPhotonics Plasmonic Modulators Product Portfolio
6.17.5	DustPhotonics Recent Developments
6.18	Optalysys
6.18.1	Optalysys Company Information
6.18.2	Optalysys Business Overview
6.18.3	Optalysys Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
6.18.4	Optalysys Plasmonic Modulators Product Portfolio
6.18.5	Optalysys Recent Developments
6.19	Optoscribe
6.19.1	Optoscribe Company Information
6.19.2	Optoscribe Business Overview
6.19.3	Optoscribe Plasmonic Modulators Production, Value and Gross Margin (2021-2026)
6.19.4	Optoscribe Plasmonic Modulators Product Portfolio
6.19.5	Optoscribe Recent Developments

7 Global Plasmonic Modulators Production by Region

7.1	Global Plasmonic Modulators Production by Region: 2021 VS 2025 VS 2032
7.2	Global Plasmonic Modulators Production by Region (2021-2032)
7.2.1	Global Plasmonic Modulators Production by Region (2021-2026)
7.2.2	Global Plasmonic Modulators Production Forecast by Region (2027-2032)
7.3	Global Plasmonic Modulators Production by Region: 2021 VS 2025 VS 2032
7.4	Global Plasmonic Modulators Production Value by Region (2021-2032)
7.4.1	Global Plasmonic Modulators Production Value by Region (2021-2026)
7.4.2	Global Plasmonic Modulators Production Value by Region (2027-2032)
7.5	Global Plasmonic Modulators Market Price Analysis by Region (2021-2032)
7.6	Regional Production Value Trends (2021-2032)
7.6.1	North America Plasmonic Modulators Production Value (2021-2032)
7.6.2	Europe Plasmonic Modulators Production Value (2021-2032)
7.6.3	Asia-Pacific Plasmonic Modulators Production Value (2021-2032)
7.6.4	South America Plasmonic Modulators Production Value (2021-2032)

8 Global Plasmonic Modulators Consumption by Region

8.1 Global Plasmonic Modulators Consumption by Region: 2021 VS 2025 VS 2032

8.2 Global Plasmonic Modulators Consumption by Region (2021-2032)

8.2.1 Global Plasmonic Modulators Consumption by Region (2021-2026)

8.2.2 Global Plasmonic Modulators Consumption by Region (2027-2032)

8.3 North America

8.3.1 North America Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032

8.3.2 North America Plasmonic Modulators Consumption by Country (2021-2032)

8.3.3 U.S.

8.3.4 Canada

8.3.5 Mexico

8.4 Europe

8.4.1 Europe Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032

8.4.2 Europe Plasmonic Modulators Consumption by Country (2021-2032)

8.4.3 Germany

8.4.4 France

8.4.5 U.K.

8.4.6 Italy

8.4.7 Netherlands

8.5 Asia Pacific

8.5.1 Asia Pacific Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032

8.5.2 Asia Pacific Plasmonic Modulators Consumption by Country (2021-2032)

8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

8.6 South America

8.6.1 South America Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032

8.6.2 South America Plasmonic Modulators Consumption by Country (2021-2032)

8.6.3 Brazil

8.6.4 Argentina

8.6.5 Chile

8.6.6 Colombia

8.7 Middle East & Africa

8.7.1 Middle East & Africa Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032

8.7.2 Middle East & Africa Plasmonic Modulators Consumption by Country (2021-2032)

8.7.3 Egypt

8.7.4 South Africa

8.7.5 Israel

8.7.6 Türkiye

8.7.7 GCC Countries

9 Value Chain and Sales Channels Analysis

9.1 Plasmonic Modulators Value Chain Analysis

9.1.1 Plasmonic Modulators Key Raw Materials

- 9.1.2 Raw Materials Key Suppliers
- 9.1.3 Manufacturing Cost Structure
- 9.1.4 Plasmonic Modulators Production Mode & Process
- 9.2 Plasmonic Modulators Sales Channels Analysis
 - 9.2.1 Direct Comparison with Distribution Share
 - 9.2.2 Plasmonic Modulators Distributors
 - 9.2.3 Plasmonic Modulators Customers

10 Concluding Insights

11 Appendix

- 11.1 Reasons for Doing This Study
- 11.2 Research Methodology
- 11.3 Research Process
- 11.4 Authors List of This Report
- 11.5 Data Source
 - 11.5.1 Secondary Sources
 - 11.5.2 Primary Sources
- 11.6 Disclaimer

List of Tables and Figures

List of Tables:

- Table 1: Plasmonic Modulators Industry Trends
- Table 2: Plasmonic Modulators Industry Drivers
- Table 3: Plasmonic Modulators Industry Opportunities and Challenges
- Table 4: Plasmonic Modulators Industry Restraints
- Table 5: Global Plasmonic Modulators Production Value by Manufacturers (US\$ Million) & (2021-2026)
- Table 6: Global Plasmonic Modulators Production Value Share by Manufacturers (2021-2026)
- Table 7: Global Plasmonic Modulators Production by Manufacturers (k units) & (2021-2026)
- Table 8: Global Plasmonic Modulators Production Market Share by Manufacturers
- Table 9: Global Plasmonic Modulators Average Price (USD/unit) of Manufacturers (2021-2026)
- Table 10: Global Plasmonic Modulators Industry Manufacturers Ranking, 2024 VS 2025 VS 2026
- Table 11: Global Plasmonic Modulators Key Manufacturers Manufacturing Sites & Headquarters
- Table 12: Global Plasmonic Modulators Manufacturers, Product Type & Application
- Table 13: Global Plasmonic Modulators Manufacturers Established Date
- Table 14: Global Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15: Global Plasmonic Modulators by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2025)
- Table 16: Major Manufacturers of Silicon–Plasmonic Modulators
- Table 17: Major Manufacturers of Graphene–Plasmonic Modulators
- Table 18: Major Manufacturers of TFLN–Plasmonic Modulators
- Table 19: Major Manufacturers of EO Polymer–Plasmonic Modulators
- Table 20: Major Manufacturers of PCM–Plasmonic Modulators
- Table 21: Global Plasmonic Modulators Production by Type 2021 VS 2025 VS 2032 (k units)
- Table 22: Global Plasmonic Modulators Production by Type (2021-2026) & (k units)
- Table 23: Global Plasmonic Modulators Production by Type (2027-2032) & (k units)
- Table 24: Global Plasmonic Modulators Production Market Share by Type (2021-2026)
- Table 25: Global Plasmonic Modulators Production Market Share by Type (2027-2032)
- Table 26: Global Plasmonic Modulators Production Value by Type 2021 VS 2025 VS 2032 (k units)
- Table 27: Global Plasmonic Modulators Production Value by Type (2021-2026) & (k units)
- Table 28: Global Plasmonic Modulators Production Value by Type (2027-2032) & (k units)
- Table 29: Global Plasmonic Modulators Production Value Market Share by Type (2021-2026)
- Table 30: Global Plasmonic Modulators Production Value Market Share by Type (2027-2032)
- Table 31: Major Manufacturers of Data Centers
- Table 32: Major Manufacturers of 5G/6G Networks
- Table 33: Major Manufacturers of High-Performance Computing
- Table 34: Major Manufacturers of Others
- Table 35: Global Plasmonic Modulators Production by Application 2021 VS 2025 VS 2032 (k units)
- Table 36: Global Plasmonic Modulators Production by Application (2021-2026) & (k units)
- Table 37: Global Plasmonic Modulators Production by Application (2027-2032) & (k units)
- Table 38: Global Plasmonic Modulators Production Market Share by Application (2021-2026)
- Table 39: Global Plasmonic Modulators Production Market Share by Application (2027-2032)
- Table 40: Global Plasmonic Modulators Production Value by Application 2021 VS 2025 VS 2032 (k units)
- Table 41: Global Plasmonic Modulators Production Value by Application (2021-2026) & (k units)
- Table 42: Global Plasmonic Modulators Production Value by Application (2027-2032) & (k units)
- Table 43: Global Plasmonic Modulators Production Value Market Share by Application (2021-2026)
- Table 44: Global Plasmonic Modulators Production Value Market Share by Application (2027-2032)
- Table 45: Intel Company Information
- Table 46: Intel Business Overview
- Table 47: Intel Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 48: Intel Plasmonic Modulators Product Portfolio
- Table 49: Intel Recent Development
- Table 50: IBM Company Information
- Table 51: IBM Business Overview
- Table 52: IBM Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)

- Table 53: IBM Plasmonic Modulators Product Portfolio
- Table 54: IBM Recent Development
- Table 55: Cisco Company Information
- Table 56: Cisco Business Overview
- Table 57: Cisco Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 58: Cisco Plasmonic Modulators Product Portfolio
- Table 59: Cisco Recent Development
- Table 60: Marvell Company Information
- Table 61: Marvell Business Overview
- Table 62: Marvell Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 63: Marvell Plasmonic Modulators Product Portfolio
- Table 64: Marvell Recent Development
- Table 65: Lumentum Company Information
- Table 66: Lumentum Business Overview
- Table 67: Lumentum Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 68: Lumentum Plasmonic Modulators Product Portfolio
- Table 69: Lumentum Recent Development
- Table 70: Coherent Company Information
- Table 71: Coherent Business Overview
- Table 72: Coherent Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 73: Coherent Plasmonic Modulators Product Portfolio
- Table 74: Coherent Recent Development
- Table 75: STMicroelectronics Company Information
- Table 76: STMicroelectronics Business Overview
- Table 77: STMicroelectronics Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 78: STMicroelectronics Plasmonic Modulators Product Portfolio
- Table 79: STMicroelectronics Recent Development
- Table 80: GlobalFoundries Company Information
- Table 81: GlobalFoundries Business Overview
- Table 82: GlobalFoundries Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 83: GlobalFoundries Plasmonic Modulators Product Portfolio
- Table 84: GlobalFoundries Recent Development
- Table 85: Hamamatsu Photonics Company Information
- Table 86: Hamamatsu Photonics Business Overview
- Table 87: Hamamatsu Photonics Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 88: Hamamatsu Photonics Plasmonic Modulators Product Portfolio
- Table 89: Hamamatsu Photonics Recent Development
- Table 90: Broadcom Company Information
- Table 91: Broadcom Business Overview
- Table 92: Broadcom Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 93: Broadcom Plasmonic Modulators Product Portfolio
- Table 94: Broadcom Recent Development
- Table 95: MACOM Company Information
- Table 96: MACOM Business Overview
- Table 97: MACOM Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 98: MACOM Plasmonic Modulators Product Portfolio
- Table 99: MACOM Recent Development
- Table 100: Rockley Photonics Company Information
- Table 101: Rockley Photonics Business Overview
- Table 102: Rockley Photonics Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin (2021-2026)
- Table 103: Rockley Photonics Plasmonic Modulators Product Portfolio
- Table 104: Rockley Photonics Recent Development
- Table 105: HyperLight Company Information
- Table 106: HyperLight Business Overview
- Table 107: HyperLight Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 108: HyperLight Plasmonic Modulators Product Portfolio

• Table 109: HyperLight Recent Development

• Table 110: Lightmatter Company Information

• Table 111: Lightmatter Business Overview

• Table 112: Lightmatter Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 113: Lightmatter Plasmonic Modulators Product Portfolio

• Table 114: Lightmatter Recent Development

• Table 115: Lightwave Logic Company Information

• Table 116: Lightwave Logic Business Overview

• Table 117: Lightwave Logic Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 118: Lightwave Logic Plasmonic Modulators Product Portfolio

• Table 119: Lightwave Logic Recent Development

• Table 120: Ayar Labs Company Information

• Table 121: Ayar Labs Business Overview

• Table 122: Ayar Labs Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 123: Ayar Labs Plasmonic Modulators Product Portfolio

• Table 124: Ayar Labs Recent Development

• Table 125: DustPhotonics Company Information

• Table 126: DustPhotonics Business Overview

• Table 127: DustPhotonics Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 128: DustPhotonics Plasmonic Modulators Product Portfolio

• Table 129: DustPhotonics Recent Development

• Table 130: Optalysys Company Information

• Table 131: Optalysys Business Overview

• Table 132: Optalysys Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 133: Optalysys Plasmonic Modulators Product Portfolio

• Table 134: Optalysys Recent Development

• Table 135: Optoscribe Company Information

• Table 136: Optoscribe Business Overview

• Table 137: Optoscribe Plasmonic Modulators Production (k units), Value (US\$ Million), Price (USD/unit) and Gross Margin

(2021-2026)

• Table 138: Optoscribe Plasmonic Modulators Product Portfolio

• Table 139: Optoscribe Recent Development

• Table 140: Global Plasmonic Modulators Production by Region: 2021 VS 2025 VS 2032 (k units)

• Table 141: Global Plasmonic Modulators Production by Region (2021-2026) & (k units)

• Table 142: Global Plasmonic Modulators Production Market Share by Region (2021-2026)

• Table 143: Global Plasmonic Modulators Production Forecast by Region (2027-2032) & (k units)

• Table 144: Global Plasmonic Modulators Production Market Share Forecast by Region (2027-2032)

• Table 145: Global Plasmonic Modulators Production Value Comparison by Region: 2021 VS 2025 VS 2032 (US\$ Million)

• Table 146: Global Plasmonic Modulators Production Value by Region (2021-2026) & (US\$ Million)

• Table 147: Global Plasmonic Modulators Production Value Share by Region (2021-2026)

• Table 148: Global Plasmonic Modulators Production Value by Region (2027-2032) & (US\$ Million)

• Table 149: Global Plasmonic Modulators Production Value Share by Region: (2027-2032) & (US\$ Million)

• Table 150: Global Plasmonic Modulators Market Average Price (USD/unit) by Region (2021-2026)

• Table 151: Global Plasmonic Modulators Market Average Price (USD/unit) by Region (2027-2032)

• Table 152: Global Plasmonic Modulators Consumption by Region: 2021 VS 2025 VS 2032 (k units)

• Table 153: Global Plasmonic Modulators Consumption by Region (2021-2026) & (k units)

• Table 154: Global Plasmonic Modulators Consumption Market Share by Region (2021-2026)

• Table 155: Global Plasmonic Modulators Consumption Forecasted by Region (2027-2032) & (k units)

• Table 156: Global Plasmonic Modulators Consumption Forecasted Market Share by Region (2027-2032)

• Table 157: North America Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032 (k units)

• Table 158: North America Plasmonic Modulators Consumption by Country (2021-2026) & (k units)

• Table 159: North America Plasmonic Modulators Consumption by Country (2027-2032) & (k units)

• Table 160: Europe Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032 (k units)

• Table 161: Europe Plasmonic Modulators Consumption by Country (2021-2026) & (k units)

• Table 162: Europe Plasmonic Modulators Consumption by Country (2027-2032) & (k units)

• Table 163: Asia Pacific Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032 (k units)

• Table 164: Asia Pacific Plasmonic Modulators Consumption by Country (2021-2026) & (k units)

• Table 165: Asia Pacific Plasmonic Modulators Consumption by Country (2027-2032) & (k units)

- Table 166: South America Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032 (k units)
- Table 167: South America Plasmonic Modulators Consumption by Country (2021-2026) & (k units)
- Table 168: South America Plasmonic Modulators Consumption by Country (2027-2032) & (k units)
- Table 169: Middle East & Africa Plasmonic Modulators Consumption Growth Rate by Country: 2021 VS 2025 VS 2032 (k units)
- Table 170: Middle East & Africa Plasmonic Modulators Consumption by Country (2021-2026) & (k units)
- Table 171: Middle East & Africa Plasmonic Modulators Consumption by Country (2027-2032) & (k units)
- Table 172: Key Raw Materials
- Table 173: Raw Materials Key Suppliers
- Table 174: Plasmonic Modulators Distributors List
- Table 175: Plasmonic Modulators Customers List
- Table 176: Research Programs/Design for This Report
- Table 177: Authors List of This Report
- Table 178: Secondary Sources
- Table 179: Primary Sources

List of Figures:

- Figure 1: Plasmonic Modulators Product Image
- Figure 2: Global Plasmonic Modulators Production Value (US\$ Million), 2021 VS 2025 VS 2032
- Figure 3: Global Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 4: Global Plasmonic Modulators Production Capacity (2021-2032) & (k units)
- Figure 5: Global Plasmonic Modulators Production (2021-2032) & (k units)
- Figure 6: Global Plasmonic Modulators Average Price (USD/unit) & (2021-2032)
- Figure 7: Global Top 5 and 10 Plasmonic Modulators Players Market Share by Production Value in 2025
- Figure 8: Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2021 VS 2025
- Figure 9: Silicon–Plasmonic Modulators Image
- Figure 10: Graphene–Plasmonic Modulators Image
- Figure 11: TFLN–Plasmonic Modulators Image
- Figure 12: EO Polymer–Plasmonic Modulators Image
- Figure 13: PCM–Plasmonic Modulators Image
- Figure 14: Global Plasmonic Modulators Production by Type (2021 VS 2025 VS 2032) & (k units)
- Figure 15: Global Plasmonic Modulators Production Market Share 2021 VS 2025 VS 2032
- Figure 16: Global Plasmonic Modulators Production Market Share by Type (2021-2032)
- Figure 17: Global Plasmonic Modulators Production Value by Type (2021 VS 2025 VS 2032) & (k units)
- Figure 18: Global Plasmonic Modulators Production Value Share 2021 VS 2025 VS 2032
- Figure 19: Global Plasmonic Modulators Production Value Share by Type (2021-2032)
- Figure 20: Data Centers Image
- Figure 21: 5G/6G Networks Image
- Figure 22: High-Performance Computing Image
- Figure 23: Others Image
- Figure 24: Global Plasmonic Modulators Production by Application (2021 VS 2025 VS 2032) & (k units)
- Figure 25: Global Plasmonic Modulators Production Market Share 2021 VS 2025 VS 2032
- Figure 26: Global Plasmonic Modulators Production Market Share by Application (2021-2032)
- Figure 27: Global Plasmonic Modulators Production Value by Application (2021 VS 2025 VS 2032) & (k units)
- Figure 28: Global Plasmonic Modulators Production Value Share 2021 VS 2025 VS 2032
- Figure 29: Global Plasmonic Modulators Production Value Share by Application (2021-2032)
- Figure 30: Global Plasmonic Modulators Production by Region: 2021 VS 2025 VS 2032 (k units)
- Figure 31: Global Plasmonic Modulators Production Market Share by Region: 2021 VS 2025 VS 2032
- Figure 32: Global Plasmonic Modulators Production Value Comparison by Region: 2021 VS 2025 VS 2032 (US\$ Million)
- Figure 33: Global Plasmonic Modulators Production Value Share by Region: 2021 VS 2025 VS 2032
- Figure 34: North America Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 35: Europe Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 36: Asia-Pacific Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 37: South America Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 38: Middle East & Africa Plasmonic Modulators Production Value (2021-2032) & (US\$ Million)
- Figure 39: North America Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 40: North America Plasmonic Modulators Consumption Market Share by Country (2021-2032)
- Figure 41: U.S. Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 42: Canada Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 43: Mexico Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 44: Europe Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 45: Europe Plasmonic Modulators Consumption Market Share by Country (2021-2032)
- Figure 46: Germany Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 47: France Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)

- Figure 48: U.K. Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 49: Italy Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 50: Netherlands Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 51: Asia Pacific Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 52: Asia Pacific Plasmonic Modulators Consumption Market Share by Country (2021-2032)
- Figure 53: China Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 54: Japan Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 55: South Korea Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 56: Southeast Asia Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 57: India Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 58: Australia Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 59: South America Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 60: South America Plasmonic Modulators Consumption Market Share by Country (2021-2032)
- Figure 61: Brazil Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 62: Argentina Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 63: Chile Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 64: Middle East & Africa Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 65: Middle East & Africa Plasmonic Modulators Consumption Market Share by Country (2021-2032)
- Figure 66: Egypt Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 67: South Africa Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 68: Israel Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 69: Türkiye Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 70: GCC Countries Plasmonic Modulators Consumption and Growth Rate (2021-2032) & (k units)
- Figure 71: Plasmonic Modulators Value Chain
- Figure 72: Manufacturing Cost Structure
- Figure 73: Plasmonic Modulators Production Mode & Process
- Figure 74: Direct Comparison with Distribution Share
- Figure 75: Distributors Profiles
- Figure 76: Years Considered
- Figure 77: Research Process
- Figure 78: Key Executives Interviewed