

Global 980nm SM Pump Laser Diode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 980nm SM Pump Laser Diode market size is expected to reach \$ 310 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

The 980nm single-mode pump laser diode is a semiconductor laser operating at a wavelength of 980 nanometers and emitting a single-mode beam. It is primarily used to provide a pump source for fiber amplifiers (such as erbium-doped fiber amplifiers, EDFA) or fiber lasers. It features high beam quality, narrow divergence angle, low noise, and high power stability, enabling efficient optical energy injection into the fiber gain medium, thereby improving the gain efficiency and output power of optical communication systems or industrial lasers. It is a core component in fields such as fiber optic communication, fiber lasers, and precision material processing.

The 980nm single-mode pump laser diode industry chain mainly includes three segments: upstream raw material supply, midstream chip manufacturing and packaging, and downstream applications. The upstream segment provides key raw materials such as high-purity semiconductor substrates (e.g., InP, GaAs), epitaxial growth materials, metal electrodes, and optical components; the midstream segment involves core processes such as epitaxial growth, photolithography, etching, single-mode cavity design, chip packaging, and fiber coupling, carried out by laser chip manufacturers; the downstream applications cover fields such as fiber optic communication systems, erbium-doped fiber amplifiers (EDFA), fiber lasers, industrial laser processing, and medical optical equipment. The main technological barriers in the entire industry chain are concentrated in epitaxial growth quality, single-mode beam control, fiber coupling efficiency, and packaging reliability, which determine product performance and market competitiveness.

In 2025, the average price of 980nm single-mode pump laser diodes is projected to be US\$1320 per unit, with sales of 129,545 units, a total production capacity of 185,000 units, and a gross profit margin of approximately 39%.

This report studies the global 980nm SM Pump Laser Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 980nm SM Pump Laser Diode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 980nm SM Pump Laser Diode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 980nm SM Pump Laser Diode total production and demand, 2021-2032, (K Units)

Global 980nm SM Pump Laser Diode total production value, 2021-2032, (USD Million)

Global 980nm SM Pump Laser Diode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 980nm SM Pump Laser Diode consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 980nm SM Pump Laser Diode domestic production, consumption, key domestic manufacturers and share

Global 980nm SM Pump Laser Diode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 980nm SM Pump Laser Diode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 980nm SM Pump Laser Diode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 980nm SM Pump Laser Diode market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lumentum, Coherent, Innolume, Toptica Eagleyard, Furukawa Electric, YOFC, LD-PD PTE, Sheumann Laser, Focuslight, nLIGHT, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 980nm SM Pump Laser Diode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 980nm SM Pump Laser Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 980nm SM Pump Laser Diode Market, Segmentation by Type:

Low-Power Type

Medium-Power Type

High-Power Type

Global 980nm SM Pump Laser Diode Market, Segmentation by Frequency Characteristics:

General-Purpose Single-Mode Pump Diode

Narrow-Band Single-Mode Pump Diode

Global 980nm SM Pump Laser Diode Market, Segmentation by Encapsulation Type:

Bare Die

Butterfly Package

Fiber Optic Coupling Module

Global 980nm SM Pump Laser Diode Market, Segmentation by Application:

Optical Communication Industry

Medical Industry

Industrial Inspection

Others

Companies Profiled:

Lumentum

Coherent

Innolume

Toptica Eagleyard

Furukawa Electric

YOFC

LD-PD PTE

Sheaumann Laser

Focuslight

nLIGHT

Jenoptik

LUMICS

QPhotonics

AeroDIODE

Agiltron

Box Optronics

HJ Optronics

QPC Lasers

Key Questions Answered:

1. How big is the global 980nm SM Pump Laser Diode market?

Global 980nm SM Pump Laser Diode Supply, Demand and Key Producers, 2026-2032

2. What is the demand of the global 980nm SM Pump Laser Diode market?
3. What is the year over year growth of the global 980nm SM Pump Laser Diode market?
4. What is the production and production value of the global 980nm SM Pump Laser Diode market?
5. Who are the key producers in the global 980nm SM Pump Laser Diode market?
6. What are the growth factors driving the market demand?

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