

Global 635nm-1310nm TO Packaged Laser Diode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 635nm-1310nm TO Packaged Laser Diode market size is expected to reach \$ 2096 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global production of 635nm-1310nm TO packaged laser diodes reached 54.76 million units, with an average selling price of \$28 per unit. 635nm-1310nm TO-packaged laser diodes refer to semiconductor laser diodes that emit wavelengths covering the visible red light (635 nm) to the near-infrared communication/sensing band (1310 nm). Their laser chips are packaged in a TO (metal can) hermetically sealed/semi-hermetically sealed package, and electrical connection and heat dissipation are achieved through a metal base/pin. The top metal cap may have a transparent window or collimating lens. Some models also integrate a monitoring photodiode to support automatic power control (APC). They are widely used in visible red light indication/alignment, machine vision and sensing, spectral measurement, optical communication/optical interconnection and industrial ranging, test instruments and other fields. The upstream of the industry chain includes epitaxial wafers and chips (GaAs/InP/GaN, etc.), chip manufacturing and coating, TO substrates and leads (Kovar/copper-tungsten/gold plating, etc.), window glass/collimating lenses, bonding wires and die-bonding materials, and sorting and testing equipment; the midstream consists of packaging plants, which complete chip mounting, bonding, capping/laser welding, optical axis and focal length adjustment, reliability and lifespan aging, and grading by power/threshold current/wavelength drift, etc.; the downstream enters module factories (which then manufacture laser modules, ranging modules, and spectral/sensor systems) and end-user OEMs. Gross profit margin is approximately 15%–30%.

This report studies the global 635nm-1310nm TO Packaged Laser Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 635nm-1310nm TO Packaged 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 635nm-1310nm TO Packaged Laser Diode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 635nm-1310nm TO Packaged Laser Diode total production and demand, 2021-2032, (K Units)

Global 635nm-1310nm TO Packaged Laser Diode total production value, 2021-2032, (USD Million)

Global 635nm-1310nm TO Packaged Laser Diode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 635nm-1310nm TO Packaged Laser Diode consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 635nm-1310nm TO Packaged Laser Diode domestic production, consumption, key domestic manufacturers and share

Global 635nm-1310nm TO Packaged Laser Diode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 635nm-1310nm TO Packaged Laser Diode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 635nm-1310nm TO Packaged Laser Diode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 635nm-1310nm TO Packaged 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 Thorlabs, Innolume, Coherent, Excelitas, Ushio Inc., Edmund Optics, SemiNex, Hamamatsu Photonics, ROHM Semiconductor, Union Optronics, 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 635nm-1310nm TO Packaged 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 635nm-1310nm TO Packaged Laser Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 635nm-1310nm TO Packaged Laser Diode Market, Segmentation by Type:

?3.8 mm?TO-46?

?5.6 mm?TO-18/TO-56?

?9 mm?TO-5/TO-9?

Global 635nm-1310nm TO Packaged Laser Diode Market, Segmentation by Power Rating:

CW Continuous

Wave Pulse

Global 635nm-1310nm TO Packaged Laser Diode Market, Segmentation by Application:

Machine Vision Sensing

Spectroscopic Measurement

Optical Communication

Industrial Ranging

Others

Companies Profiled:

Thorlabs

Innolume

Coherent

Excelitas

Ushio Inc.

Edmund Optics

SemiNex

Hamamatsu Photonics

ROHM Semiconductor

Union Optronics

Shenzhen Micost-optotech

Key Questions Answered:

1. How big is the global 635nm-1310nm TO Packaged Laser Diode market?
2. What is the demand of the global 635nm-1310nm TO Packaged Laser Diode market?
3. What is the year over year growth of the global 635nm-1310nm TO Packaged Laser Diode market?
4. What is the production and production value of the global 635nm-1310nm TO Packaged Laser Diode market?
5. Who are the key producers in the global 635nm-1310nm TO Packaged Laser Diode market?
6. What are the growth factors driving the market demand?

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