

Global Super Luminescent Diodes (SLD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Super Luminescent Diodes (SLD) market size is expected to reach \$ 652 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global super luminescent diodes production reached approximately 347 k units, the average price is 1200 usd/unit. Super luminescent diodes (SLEDs) are broadband light sources that generate amplified spontaneous emission (ASE) in the semiconductor gain region. By using tilt angles, anti-reflection films, or window structures to suppress end-face feedback, they are kept in an amplified LED state rather than a true laser. This results in output light with better spatial collimation, a wider spectrum, shorter coherence length, and relatively low speckle/low interference noise. They are commonly used in OCT imaging, fiber optic sensing, and optical testing, where high bandwidth and stability are required.

Market Concentration and Major Players:

Internationally, the market for super LEDs is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include Thorlabs and Anritsu Group. Domestically, however, the super LED market still has significant room for growth.

Manufacturing Process and Market Trends:

The manufacturing process of SLD (Single-Layer Lighting) essentially involves creating a waveguide light source on a III-V epitaxial platform that is 'deliberately designed to prevent oscillation.' First, multilayer epitaxy is performed on an InP or GaAs substrate

using MOCVD. The strained multi-quantum-well active region is sandwiched between the upper and lower waveguides and the cladding, and a heavily doped contact layer is grown. Then, ridge-shaped or buried heterojunction waveguides are etched using photolithography and selective etching. The strip direction is tilted at a small angle relative to the cleaved end face normal, or a bending section is used to deflect the end face reflection into a waveguide mode. Subsequently, a dielectric breakdown passivation layer is deposited, an electrode window is opened, P/N metallization is performed for thinning, and ohmic contacts are formed. After cleaving into bar strips, a broadband high-reflection multilayer film or even a window structure is applied to the light-emitting end face to suppress residual reflection and reduce FP ripple. The back end is equipped with a high-reflection or low-coupling structure. Finally, the chip enters a package or fiber-coupled module with TEC and NTC feedback for aging and screening before delivery.

The main drivers of global demand remain the expansion of OCT medical imaging installations and the penetration of fiber optic gyroscope navigation sensors. The driving force is shifting from 'bright enough and wide enough' to long-term power and spectral flatness stability, packaging consistency, and low ripple control. Meanwhile, wavelength platforms are differentiated into two main lines based on application: near-infrared and visible, and 1.3/1.55 μ m. The trend of silicon photonics and integrated photonics is pushing some value from discrete packaging to wafer-level alignment and on-chip broadband light source solutions. With the separation of foundry and design, competition increasingly depends on epitaxial yield curves, process discipline, and reliability systems rather than simply stacking parameters.

This report studies the global Super Luminescent Diodes (SLD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Super Luminescent Diodes (SLD) 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 Super Luminescent Diodes (SLD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Super Luminescent Diodes (SLD) total production and demand, 2021-2032, (K Units)

Global Super Luminescent Diodes (SLD) total production value, 2021-2032, (USD Million)

Global Super Luminescent Diodes (SLD) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Super Luminescent Diodes (SLD) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Super Luminescent Diodes (SLD) domestic production, consumption, key domestic manufacturers and share

Global Super Luminescent Diodes (SLD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Super Luminescent Diodes (SLD) production by Wavelength, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Super Luminescent Diodes (SLD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Super Luminescent Diodes (SLD) 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 Anritsu Group (Japan), Innolume (German), Thorlabs (USA), InPhenix (USA), Superlum (Ireland), Nanoplus (German), EXALOS AG (Switzerland), Box Optonics Technology (China), Denselight Semiconductor (Singapore), Nolatech (Russia), 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 Super Luminescent Diodes (SLD) 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 Wavelength, 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 Super Luminescent Diodes (SLD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Super Luminescent Diodes (SLD) Market, Segmentation by Wavelength:

Below 500 nm

500 - 1000 nm

1000 - 1500 nm

Above 1500 nm

Global Super Luminescent Diodes (SLD) Market, Segmentation by Bandwidth:

≤20 nm

20-50 nm

50-100 nm

≥100 nm

Global Super Luminescent Diodes (SLD) Market, Segmentation by Optical Fiber:

Single-mode Fiber

Multimode Fiber

Polarization-maintaining Fiber

Global Super Luminescent Diodes (SLD) Market, Segmentation by Application:

Medical

Communication

Industrial

Other

Companies Profiled:

Anritsu Group (Japan)

Innolume (German)

Thorlabs (USA)

InPhenix (USA)

Superlum (Ireland)

Nanoplus (German)

EXALOS AG (Switzerland)

Box Optronics Technology (China)

Denselight Semiconductor (Singapore)

Nolatech (Russia)

Hamamatsu Photonics (Japan)

Eblana Photonics (Ireland)

Sintec Optronics (Singapore)

LD-PD Pte. Ltd. (Singapore)

Key Questions Answered:

1. How big is the global Super Luminescent Diodes (SLD) market?
2. What is the demand of the global Super Luminescent Diodes (SLD) market?
3. What is the year over year growth of the global Super Luminescent Diodes (SLD) market?
4. What is the production and production value of the global Super Luminescent Diodes (SLD) market?
5. Who are the key producers in the global Super Luminescent Diodes (SLD) market?
6. What are the growth factors driving the market demand?

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