

Global Automotive Grade Mini LED Backlight Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G479B6084795EN.html>

Date: June 2026

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: G479B6084795EN

Abstracts

The global Automotive Grade Mini LED Backlight Module market size is expected to reach \$ 1062 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Grade Mini LED Backlight Modules production reached approximately 6754 Units, with an average global market price of around 75 USD per Unit.

Automotive Grade Mini LED Backlight Modules are automotive-grade backlight module assemblies designed specifically for automotive cockpit displays. Using Mini LED chips as the core light source, they integrate Mini LED light boards, driver circuits, optical films, heat dissipation structures, and supporting structural components. As the core light-emitting component of Mini LED automotive displays, they are responsible for providing uniform and finely adjustable backlight output. They must meet the stringent high and low temperature, vibration, durability, and electromagnetic compatibility requirements of automotive applications. Through high-density LED arrangement and local dimming technology, they achieve high brightness, high contrast, and excellent HDR display effects. They are a key intermediate component connecting upstream chip devices and downstream full-screen displays, and are also the core carrier determining the image quality, reliability, and power consumption of automotive displays.

Leveraging core features such as integrated automotive-grade design, micron-scale LED arrays, and precise local dimming—combined with comprehensive advantages in high brightness, high contrast, robust environmental adaptability, and long lifespan—Automotive Grade Mini LED Backlight Modules precisely resolve critical industry pain points associated with traditional in-vehicle backlight modules. These

issues include poor visibility under strong ambient light, significant glare at night, insufficient reliability in high-temperature and high-vibration environments, severe image quality homogenization, and a susceptibility to halo effects and brightness non-uniformity. Furthermore, these modules circumvent the inherent drawback of 'screen burn-in' associated with OLED displays; their modular, integrated design also resolves the challenges of complex manufacturing processes and limited adaptability often found in traditional modules, thereby aligning perfectly with the core demands of intelligent cockpits regarding display experience and durability. Driven by the intelligent upgrading of new energy vehicles—specifically the trend toward multi-screen cockpits and the growing demand for immersive interactive experiences—and bolstered by the increasing technological maturity and cost optimization within the supply chain, Automotive Grade Mini LED Backlight Modules are emerging as a pivotal link connecting upstream raw materials with downstream in-vehicle display terminals. Moving forward, these modules are poised to continue penetrating the mid-to-low-end vehicle segments, further optimizing their compatibility with diverse in-vehicle scenarios—such as curved screens, pillar-to-pillar displays, and AR-HUDs. Through continuous technological iteration to refine light efficiency control and thermal management, they are set to become a core driving force behind the display upgrades in intelligent cockpits, empowering the in-vehicle display industry to transition toward higher value-added and higher-reliability solutions.

The upstream raw materials for Automotive Grade Mini LED Backlight Modules mainly include Mini LED chips, driver ICs, substrates, optical films, etc. Typical upstream raw material suppliers include Sanan Optoelectronics, Shenzhen MTC, Corning, AGC, etc. Downstream customers are mainly Mini LED display manufacturers and TIRE1 suppliers, with typical users including MIND Electronics Appliance, HIWAY, Huizhou Desay SV, etc.

The single-line production capacity of Automotive Grade Mini LED Backlight Modules varies significantly depending on the technology path, production process, and level of automation. The industry's gross profit margin typically ranges from 40% to 50%.

This report studies the global Automotive Grade Mini LED Backlight Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade Mini LED Backlight Module 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 Automotive

Grade Mini LED Backlight Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade Mini LED Backlight Module total production and demand, 2021-2032, (K Units)

Global Automotive Grade Mini LED Backlight Module total production value, 2021-2032, (USD Million)

Global Automotive Grade Mini LED Backlight Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Grade Mini LED Backlight Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Grade Mini LED Backlight Module domestic production, consumption, key domestic manufacturers and share

Global Automotive Grade Mini LED Backlight Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Grade Mini LED Backlight Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Grade Mini LED Backlight Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Grade Mini LED Backlight Module 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 Shenzhen Longli Tech, Refond Optoelectronics, TCL, Tianma, Foshan NationStar Optoelectronics, BOE, Innolux, AUO Corporation, SZ Jufei Optoelectronics, Highbroad Advanced Material, 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 Automotive Grade Mini LED Backlight Module 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 Automotive Grade Mini LED Backlight Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade Mini LED Backlight Module Market, Segmentation by Type:

AM Mini LED Modules

PM Mini LED Modules

Global Automotive Grade Mini LED Backlight Module Market, Segmentation by Color Technology:

White Mini LED Modules

RGB Mini LED Modules

Global Automotive Grade Mini LED Backlight Module Market, Segmentation by

Packaging:

COB Packaging

POB Packaging

Global Automotive Grade Mini LED Backlight Module Market, Segmentation by Application:

BEV

PHEV

Others

Companies Profiled:

Shenzhen Longli Tech

Refond Optoelectronics

TCL

Tianma

Foshan NationStar Optoelectronics

BOE

Innolux

AUO Corporation

SZ Jufei Optoelectronics

Highbroad Advanced Material

Lextar Electronics (Ennostar)

APT Electronics

WG Tech JiangXi Group

Huayinxin (Wuhan) Technology

Key Questions Answered:

1. How big is the global Automotive Grade Mini LED Backlight Module market?
2. What is the demand of the global Automotive Grade Mini LED Backlight Module market?
3. What is the year over year growth of the global Automotive Grade Mini LED Backlight Module market?
4. What is the production and production value of the global Automotive Grade Mini LED Backlight Module market?
5. Who are the key producers in the global Automotive Grade Mini LED Backlight Module market?
6. What are the growth factors driving the market demand?

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