As a leading automotive LED manufacturer, Ennostar provides lighting solutions from chip to module stages, with products having automotive-grade certification and already implemented by multiple brand car manufacturers. Leveraging outstanding optoelectronics core capabilities, Ennostar continues to innovate automotive lighting technology and products with its partners. Examples include adaptive driving beam (ADB) headlights, RGB dynamic display headlights, interior ambient lighting, and eye-friendly reading lights, meeting various lighting needs inside and outside the vehicle.

LED Front Light

Market Trends & Growth Potential in Products/Technology

As time progresses, the dominance of LED headlights has been increasingly solidified, with their penetration rate surpassing 80% in 2023. The widespread adoption of LED technology has led to rapid advancements in brightness, efficiency, and functionality. Looking ahead, we can expect to see more innovative designs and features, including smarter and more energy-efficient lighting systems, as well as more personalized optical designs, to provide drivers with a safer and more comfortable driving experience.

Ennostar's Highlights

Headlights and Daytime Running Lights

Brightness meets the specifications for headlight applications and maintains stability in

high-temperature and low-temperature voltage variations, which is well-suited to meet the evolving environmental demands of headlight applications.

Small size, low thermal resistance, high-power operation, in line with the miniaturization

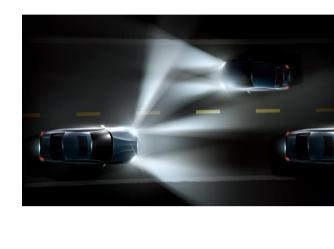
- requirements of headlights High-quality management production, certified by AEC-Q102
- Comprehensive pattern layout, the best choice for international automotive lighting manufacturers
- Ennostar is with you in every step

Chip

Products

Adaptive driving beam (ADB) headlights

Epitaxial Wafer





Package

Package

Module

Module

Matrix LED design, individually controlled high-performance LED lighting · Glare-free high beam, avoiding direct headlight glare on pedestrians, and capable of

Ennostar's Highlights

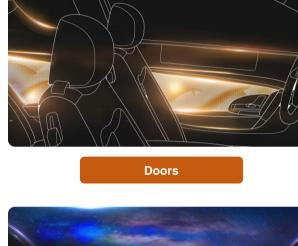
- projecting images or text to communicate driving conditions to pedestrians

Epitaxial Wafer Chip

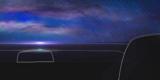
Ennostar is with you in every step

Products	•	•	•	•

Ambient Lighting



Roof and Floor









Module

Package

but also sets the mood. Previously exclusive to luxury models, smart LEDs and control programs are now widely available in mainstream vehicles. This means more consumers can enjoy unique in-car atmospheres, expanding the market potential for automotive ambient lighting.

Complies with automotive standards AEC-Q100 and AEC-Q102

Ennostar's Highlights Equipped with LED D65 specifications, accurate color points, and temperature compensation, ensuring color consistency under different temperatures Full-color LEDs are equipped with control ICs, allowing intelligent color adjustment

Ennostar is with you in every step

in automotive lighting.

safety.

according to requirements

 •	•	•	•

and safety upgrades, displaying dynamic messages for pedestrian communication, enhancing driver safety. Prominent brands are adopting this technology, replacing linear light sources with combined white light and full-color displays, marking an irresistible trend

Chip

Market Trends & Growth Potential in Products/Technology Mini RGB LED displays revolutionize automotive exteriors, favored by automakers and consumers. This lighting integrates trends like personalization, message communication,

Matrix Mini RGB LED Display

Epitaxial Wafer

Ennostar's Highlights

White Light Display

Front Full-Color

High brightness, high contrast, high grayscale. The application of combining front full-color display (RGB daytime running light) with white light display (logo display) enhances overall visibility and improves driving

Front Full-Color

Front Full-Color/ White Light Display

Rear Red Light Display Ennostar's Highlights

Mini LED supports high-pixel local dimming, dynamically adjusting display patterns based on driving scenarios to improve rear vehicle recognition and reduce accident risks. When the vehicle is stationary, the lights switch to

628-636nm deep red wavelength for car rear displays, utilizing automotive-grade LED modules to ensure high brightness, contrast, and grayscale, enhancing visibility

display mode for conveying vehicle messages.

and driving safety

- Ennostar is with you in every step **Epitaxial Wafer Package** Chip Module **Products**
- **Door Welcome Lights** Ennostar's Highlights Featuring a streamlined light strip and customizable

module design, equipped with a light sensor, it operates based on ambient light sources and door



Products

Eye-friendly Reading Light

movements within an effective range.

Ennostar's Highlights

- ratio lighting, it provides sufficient brightness and uniformity without causing glare, enhancing the reading environment inside the vehicle. Sunlight-similar spectrum can reflect color accuracy,
 - reducing eye fatigue and offering more natural colors.





Ennostar is with you in every step

With sunlight-similar spectrum illumination or high MP

Products	Epitaxiai water	Cnip	Раскаде	Module
	•		_	•