

Global LED Epitaxial Wafer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LED Epitaxial Wafer market size was valued at US\$ 1286 million in 2025 and is forecast to a readjusted size of US\$ 2181 million by 2032 with a CAGR of 7.8% during review period.

LED epitaxial wafers are core semiconductor material products positioned upstream in the LED value chain. In essence, they are bare epitaxial wafers in which multilayer light-emitting structures are grown on substrates such as sapphire, gallium arsenide, gallium phosphide, silicon, or gallium nitride through epitaxial processes such as MOCVD or LPE, and are then supplied to downstream chip makers before photolithography and metal electrode processing are completed. These products determine the wavelength range, luminous efficiency, uniformity, reliability, and manufacturing yield of subsequent LED chips. As a result, suppliers typically offer differentiated structure design, size platforms, and customized growth services for visible light, ultraviolet, infrared, and Mini LED and Micro LED display applications. Their main customers include LED chip manufacturers, display and backlight solution providers, automotive light source makers, UV curing and disinfection device suppliers, and developers of infrared sensing and optical communication devices. Common delivery forms include both standard epitaxial wafers and foundry services jointly developed around wavelength, substrate, layer structure, and application scenarios, while some companies extend further into chips and packaging to form an integrated epitaxial wafer plus chip business model.

From the supply side, the LED epitaxial wafer industry is not simply a materials business. Rather, it is a high-barrier manufacturing sector built on material systems, epitaxial design, equipment tuning, and yield control. Official company information shows that mainstream suppliers have already established multi-platform capabilities

around GaAs, GaP, GaN, and related derivative structures, while continuing to deepen expertise in LPE, MOCVD, template-based epitaxy, and monolithic RGB sequential epitaxy. Competition has therefore shifted from a past focus on brightness alone toward wavelength coverage, wafer size, defect density, uniformity, reliability, and compatibility with downstream chip processes. For customers, an epitaxial wafer is not a generic material, but the starting point that determines device performance and cost structure. As a result, companies that can simultaneously provide customized epitaxy, co-development, and integrated epitaxial wafer plus chip services are more likely to build customer stickiness and pricing power. As Mini LED, Micro LED, automotive, and high-end sensing applications continue to raise the product threshold, industry concentration is likely to move further toward leading suppliers with technology platforms and volume manufacturing experience.

From the demand side, the growth logic of LED epitaxial wafers is shifting away from reliance on traditional lighting alone toward a multi-scenario model driven by displays, automotive, UV, IR, and advanced optical communication. Official webpages clearly show that companies are no longer positioning only around white lighting or conventional backlighting, but are instead prioritizing Micro LED displays, monolithic RGB, UV disinfection, infrared sensing, SWIR detection, and AR and VR near-eye display applications. Micro LED in particular places higher requirements on epitaxial uniformity, red efficiency, large wafer platforms, and foundry capability, bringing epitaxial wafers back to the forefront of technological innovation rather than leaving them as a mature commodity material. The policy environment is also broadly supportive. China continues to include new display technologies and Micro LED in future-industry and electronics manufacturing digitalization initiatives, while Europe and the United States continue to expand LED substitution and high-efficiency applications through energy-efficiency rules and solid-state lighting programs. This means upstream epitaxial wafer suppliers are positioned to benefit from both end-market upgrading and manufacturing upgrading.

From a regional perspective, LED epitaxial wafer production capacity remains most concentrated in East Asia. Japanese suppliers retain deep strengths in traditional compound semiconductors and specialty wavelength segments, Korean suppliers are more active in GaN red, monolithic RGB, and vertical integration capabilities, while mainland China and Taiwan stand out in scale manufacturing, full-color product coverage, Mini and Micro LED industrialization, and domestic supply chain coordination. Regions such as the United Kingdom are more focused on entering high-end niches through Micro LED foundry models and advanced material platforms. By contrast, sales and end-use markets are more geographically dispersed than production, with

downstream demand coming from display, automotive, industrial sensing, medical, and lighting customers in China, Korea, Japan, Europe, and North America. Given that the long-term substitution logic for high-efficiency lighting remains intact, while display, automotive, and sensing applications are increasing product value density, the LED epitaxial wafer industry is more likely to present a positive outlook of moderate overall growth, continued structural upgrading, and faster growth in high-end segments than in traditional categories.

This report is a detailed and comprehensive analysis for global LED Epitaxial Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LED Epitaxial Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global LED Epitaxial Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global LED Epitaxial Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global LED Epitaxial Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for LED Epitaxial Wafer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global LED Epitaxial Wafer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Resonac Corporation, Nichia Corporation, Nitride Semiconductors Co., Ltd., Ennostar Corporation, PROWTECH, Soft-EPI, BOE HC Semitek Corporation, Xiamen Changelight Co., Ltd., Sanan Optoelectronics Co., Ltd., SensLite Corporation, etc.

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

Market Segmentation

LED Epitaxial Wafer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

6 Inches

4 Inches

2 Inches

Other

Market segment by Emission Band

UV LED Epitaxial Wafer

Visible LED Epitaxial Wafer

IR LED Epitaxial Wafer

Market segment by Substrate Platform

Sapphire-Based Epitaxial Wafer

GaAs-Based Epitaxial Wafer

Silicon-Based Epitaxial Wafer

Other-Substrate Epitaxial Wafer

Market segment by Application

Illumination

Backlight

Monitor

Indicator Light

Other

Major players covered

Resonac Corporation

Nichia Corporation

Nitride Semiconductors Co., Ltd.

Ennostar Corporation

PROWTech

Soft-EPi

BOE HC Semitek Corporation

Xiamen Changelight Co., Ltd.

Sanan Optoelectronics Co., Ltd.

SensLite Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe LED Epitaxial Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LED Epitaxial Wafer, with price, sales quantity, revenue, and global market share of LED Epitaxial Wafer from 2021 to 2026.

Chapter 3, the LED Epitaxial Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LED Epitaxial Wafer breakdown data are shown at the regional

level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and LED Epitaxial Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of LED Epitaxial Wafer.

Chapter 14 and 15, to describe LED Epitaxial Wafer sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global LED Epitaxial Wafer Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 6 Inches

1.3.3 4 Inches

1.3.4 2 Inches

1.3.5 Other

1.4 Market Analysis by Emission Band

1.4.1 Overview: Global LED Epitaxial Wafer Consumption Value by Emission Band: 2021 Versus 2025 Versus 2032

1.4.2 UV LED Epitaxial Wafer

1.4.3 Visible LED Epitaxial Wafer

1.4.4 IR LED Epitaxial Wafer

1.5 Market Analysis by Substrate Platform

1.5.1 Overview: Global LED Epitaxial Wafer Consumption Value by Substrate Platform: 2021 Versus 2025 Versus 2032

1.5.2 Sapphire-Based Epitaxial Wafer

1.5.3 GaAs-Based Epitaxial Wafer

1.5.4 Silicon-Based Epitaxial Wafer

1.5.5 Other-Substrate Epitaxial Wafer

1.6 Market Analysis by Application

1.6.1 Overview: Global LED Epitaxial Wafer Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Illumination

1.6.3 Backlight

1.6.4 Monitor

1.6.5 Indicator Light

1.6.6 Other

1.7 Global LED Epitaxial Wafer Market Size & Forecast

1.7.1 Global LED Epitaxial Wafer Consumption Value (2021 & 2025 & 2032)

1.7.2 Global LED Epitaxial Wafer Sales Quantity (2021-2032)

1.7.3 Global LED Epitaxial Wafer Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Resonac Corporation

2.1.1 Resonac Corporation Details

2.1.2 Resonac Corporation Major Business

2.1.3 Resonac Corporation LED Epitaxial Wafer Product and Services

2.1.4 Resonac Corporation LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Resonac Corporation Recent Developments/Updates

2.2 Nichia Corporation

2.2.1 Nichia Corporation Details

2.2.2 Nichia Corporation Major Business

2.2.3 Nichia Corporation LED Epitaxial Wafer Product and Services

2.2.4 Nichia Corporation LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Nichia Corporation Recent Developments/Updates

2.3 Nitride Semiconductors Co., Ltd.

2.3.1 Nitride Semiconductors Co., Ltd. Details

2.3.2 Nitride Semiconductors Co., Ltd. Major Business

2.3.3 Nitride Semiconductors Co., Ltd. LED Epitaxial Wafer Product and Services

2.3.4 Nitride Semiconductors Co., Ltd. LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Nitride Semiconductors Co., Ltd. Recent Developments/Updates

2.4 Ennostar Corporation

2.4.1 Ennostar Corporation Details

2.4.2 Ennostar Corporation Major Business

2.4.3 Ennostar Corporation LED Epitaxial Wafer Product and Services

2.4.4 Ennostar Corporation LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Ennostar Corporation Recent Developments/Updates

2.5 PROWTech

2.5.1 PROWTech Details

2.5.2 PROWTech Major Business

2.5.3 PROWTech LED Epitaxial Wafer Product and Services

2.5.4 PROWTech LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 PROWTech Recent Developments/Updates

2.6 Soft-EPI

2.6.1 Soft-EPI Details

- 2.6.2 Soft-EPI Major Business
- 2.6.3 Soft-EPI LED Epitaxial Wafer Product and Services
- 2.6.4 Soft-EPI LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Soft-EPI Recent Developments/Updates
- 2.7 BOE HC Semitek Corporation
 - 2.7.1 BOE HC Semitek Corporation Details
 - 2.7.2 BOE HC Semitek Corporation Major Business
 - 2.7.3 BOE HC Semitek Corporation LED Epitaxial Wafer Product and Services
 - 2.7.4 BOE HC Semitek Corporation LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 BOE HC Semitek Corporation Recent Developments/Updates
- 2.8 Xiamen Changelight Co., Ltd.
 - 2.8.1 Xiamen Changelight Co., Ltd. Details
 - 2.8.2 Xiamen Changelight Co., Ltd. Major Business
 - 2.8.3 Xiamen Changelight Co., Ltd. LED Epitaxial Wafer Product and Services
 - 2.8.4 Xiamen Changelight Co., Ltd. LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Xiamen Changelight Co., Ltd. Recent Developments/Updates
- 2.9 Sanan Optoelectronics Co., Ltd.
 - 2.9.1 Sanan Optoelectronics Co., Ltd. Details
 - 2.9.2 Sanan Optoelectronics Co., Ltd. Major Business
 - 2.9.3 Sanan Optoelectronics Co., Ltd. LED Epitaxial Wafer Product and Services
 - 2.9.4 Sanan Optoelectronics Co., Ltd. LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Sanan Optoelectronics Co., Ltd. Recent Developments/Updates
- 2.10 SensLite Corporation
 - 2.10.1 SensLite Corporation Details
 - 2.10.2 SensLite Corporation Major Business
 - 2.10.3 SensLite Corporation LED Epitaxial Wafer Product and Services
 - 2.10.4 SensLite Corporation LED Epitaxial Wafer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 SensLite Corporation Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LED EPITAXIAL WAFER BY MANUFACTURER

- 3.1 Global LED Epitaxial Wafer Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global LED Epitaxial Wafer Revenue by Manufacturer (2021-2026)
- 3.3 Global LED Epitaxial Wafer Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of LED Epitaxial Wafer by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 LED Epitaxial Wafer Manufacturer Market Share in 2025

3.4.3 Top 6 LED Epitaxial Wafer Manufacturer Market Share in 2025

3.5 LED Epitaxial Wafer Market: Overall Company Footprint Analysis

3.5.1 LED Epitaxial Wafer Market: Region Footprint

3.5.2 LED Epitaxial Wafer Market: Company Product Type Footprint

3.5.3 LED Epitaxial Wafer Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global LED Epitaxial Wafer Market Size by Region

4.1.1 Global LED Epitaxial Wafer Sales Quantity by Region (2021-2032)

4.1.2 Global LED Epitaxial Wafer Consumption Value by Region (2021-2032)

4.1.3 Global LED Epitaxial Wafer Average Price by Region (2021-2032)

4.2 North America LED Epitaxial Wafer Consumption Value (2021-2032)

4.3 Europe LED Epitaxial Wafer Consumption Value (2021-2032)

4.4 Asia-Pacific LED Epitaxial Wafer Consumption Value (2021-2032)

4.5 South America LED Epitaxial Wafer Consumption Value (2021-2032)

4.6 Middle East & Africa LED Epitaxial Wafer Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

5.2 Global LED Epitaxial Wafer Consumption Value by Type (2021-2032)

5.3 Global LED Epitaxial Wafer Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global LED Epitaxial Wafer Sales Quantity by Application (2021-2032)

6.2 Global LED Epitaxial Wafer Consumption Value by Application (2021-2032)

6.3 Global LED Epitaxial Wafer Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

7.2 North America LED Epitaxial Wafer Sales Quantity by Application (2021-2032)

7.3 North America LED Epitaxial Wafer Market Size by Country

7.3.1 North America LED Epitaxial Wafer Sales Quantity by Country (2021-2032)

7.3.2 North America LED Epitaxial Wafer Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

8.2 Europe LED Epitaxial Wafer Sales Quantity by Application (2021-2032)

8.3 Europe LED Epitaxial Wafer Market Size by Country

8.3.1 Europe LED Epitaxial Wafer Sales Quantity by Country (2021-2032)

8.3.2 Europe LED Epitaxial Wafer Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific LED Epitaxial Wafer Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific LED Epitaxial Wafer Market Size by Region

9.3.1 Asia-Pacific LED Epitaxial Wafer Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific LED Epitaxial Wafer Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

10.2 South America LED Epitaxial Wafer Sales Quantity by Application (2021-2032)

10.3 South America LED Epitaxial Wafer Market Size by Country

10.3.1 South America LED Epitaxial Wafer Sales Quantity by Country (2021-2032)

10.3.2 South America LED Epitaxial Wafer Consumption Value by Country
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa LED Epitaxial Wafer Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa LED Epitaxial Wafer Sales Quantity by Application
(2021-2032)

11.3 Middle East & Africa LED Epitaxial Wafer Market Size by Country

11.3.1 Middle East & Africa LED Epitaxial Wafer Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa LED Epitaxial Wafer Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 LED Epitaxial Wafer Market Drivers

12.2 LED Epitaxial Wafer Market Restraints

12.3 LED Epitaxial Wafer Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of LED Epitaxial Wafer and Key Manufacturers

13.2 Manufacturing Costs Percentage of LED Epitaxial Wafer

13.3 LED Epitaxial Wafer Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 LED Epitaxial Wafer Typical Distributors

14.3 LED Epitaxial Wafer Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global LED Epitaxial Wafer Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global LED Epitaxial Wafer Consumption Value by Emission Band, (USD Million), 2021 & 2025 & 2032

Table 3. Global LED Epitaxial Wafer Consumption Value by Substrate Platform, (USD Million), 2021 & 2025 & 2032

Table 4. Global LED Epitaxial Wafer Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Resonac Corporation Basic Information, Manufacturing Base and Competitors

Table 6. Resonac Corporation Major Business

Table 7. Resonac Corporation LED Epitaxial Wafer Product and Services

Table 8. Resonac Corporation LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Resonac Corporation Recent Developments/Updates

Table 10. Nichia Corporation Basic Information, Manufacturing Base and Competitors

Table 11. Nichia Corporation Major Business

Table 12. Nichia Corporation LED Epitaxial Wafer Product and Services

Table 13. Nichia Corporation LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Nichia Corporation Recent Developments/Updates

Table 15. Nitride Semiconductors Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 16. Nitride Semiconductors Co., Ltd. Major Business

Table 17. Nitride Semiconductors Co., Ltd. LED Epitaxial Wafer Product and Services

Table 18. Nitride Semiconductors Co., Ltd. LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Nitride Semiconductors Co., Ltd. Recent Developments/Updates

Table 20. Ennostar Corporation Basic Information, Manufacturing Base and Competitors

Table 21. Ennostar Corporation Major Business

Table 22. Ennostar Corporation LED Epitaxial Wafer Product and Services

Table 23. Ennostar Corporation LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Ennostar Corporation Recent Developments/Updates

Table 25. PROWTEch Basic Information, Manufacturing Base and Competitors

Table 26. PROWTEch Major Business

Table 27. PROWTEch LED Epitaxial Wafer Product and Services

Table 28. PROWTEch LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. PROWTEch Recent Developments/Updates

Table 30. Soft-EPI Basic Information, Manufacturing Base and Competitors

Table 31. Soft-EPI Major Business

Table 32. Soft-EPI LED Epitaxial Wafer Product and Services

Table 33. Soft-EPI LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Soft-EPI Recent Developments/Updates

Table 35. BOE HC Semitek Corporation Basic Information, Manufacturing Base and Competitors

Table 36. BOE HC Semitek Corporation Major Business

Table 37. BOE HC Semitek Corporation LED Epitaxial Wafer Product and Services

Table 38. BOE HC Semitek Corporation LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. BOE HC Semitek Corporation Recent Developments/Updates

Table 40. Xiamen Changelight Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 41. Xiamen Changelight Co., Ltd. Major Business

Table 42. Xiamen Changelight Co., Ltd. LED Epitaxial Wafer Product and Services

Table 43. Xiamen Changelight Co., Ltd. LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Xiamen Changelight Co., Ltd. Recent Developments/Updates

Table 45. Sanan Optoelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 46. Sanan Optoelectronics Co., Ltd. Major Business

Table 47. Sanan Optoelectronics Co., Ltd. LED Epitaxial Wafer Product and Services

Table 48. Sanan Optoelectronics Co., Ltd. LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Sanan Optoelectronics Co., Ltd. Recent Developments/Updates

Table 50. SensLite Corporation Basic Information, Manufacturing Base and Competitors

Table 51. SensLite Corporation Major Business

Table 52. SensLite Corporation LED Epitaxial Wafer Product and Services

Table 53. SensLite Corporation LED Epitaxial Wafer Sales Quantity (Million Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. SensLite Corporation Recent Developments/Updates

Table 55. Global LED Epitaxial Wafer Sales Quantity by Manufacturer (2021-2026) & (Million Pcs)

Table 56. Global LED Epitaxial Wafer Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global LED Epitaxial Wafer Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 58. Market Position of Manufacturers in LED Epitaxial Wafer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and LED Epitaxial Wafer Production Site of Key Manufacturer

Table 60. LED Epitaxial Wafer Market: Company Product Type Footprint

Table 61. LED Epitaxial Wafer Market: Company Product Application Footprint

Table 62. LED Epitaxial Wafer New Market Entrants and Barriers to Market Entry

Table 63. LED Epitaxial Wafer Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global LED Epitaxial Wafer Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global LED Epitaxial Wafer Sales Quantity by Region (2021-2026) & (Million Pcs)

Table 66. Global LED Epitaxial Wafer Sales Quantity by Region (2027-2032) & (Million Pcs)

Table 67. Global LED Epitaxial Wafer Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global LED Epitaxial Wafer Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global LED Epitaxial Wafer Average Price by Region (2021-2026) & (US\$/Pcs)

Table 70. Global LED Epitaxial Wafer Average Price by Region (2027-2032) & (US\$/Pcs)

Table 71. Global LED Epitaxial Wafer Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 72. Global LED Epitaxial Wafer Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 73. Global LED Epitaxial Wafer Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global LED Epitaxial Wafer Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global LED Epitaxial Wafer Average Price by Type (2021-2026) & (US\$/Pcs)

Table 76. Global LED Epitaxial Wafer Average Price by Type (2027-2032) & (US\$/Pcs)

Table 77. Global LED Epitaxial Wafer Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 78. Global LED Epitaxial Wafer Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 79. Global LED Epitaxial Wafer Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global LED Epitaxial Wafer Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global LED Epitaxial Wafer Average Price by Application (2021-2026) & (US\$/Pcs)

Table 82. Global LED Epitaxial Wafer Average Price by Application (2027-2032) & (US\$/Pcs)

Table 83. North America LED Epitaxial Wafer Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 84. North America LED Epitaxial Wafer Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 85. North America LED Epitaxial Wafer Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 86. North America LED Epitaxial Wafer Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 87. North America LED Epitaxial Wafer Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 88. North America LED Epitaxial Wafer Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 89. North America LED Epitaxial Wafer Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America LED Epitaxial Wafer Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe LED Epitaxial Wafer Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 92. Europe LED Epitaxial Wafer Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 93. Europe LED Epitaxial Wafer Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 94. Europe LED Epitaxial Wafer Sales Quantity by Application (2027-2032) &

(Million Pcs)

Table 95. Europe LED Epitaxial Wafer Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 96. Europe LED Epitaxial Wafer Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 97. Europe LED Epitaxial Wafer Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe LED Epitaxial Wafer Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 100. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 101. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 102. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 103. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Region (2021-2026) & (Million Pcs)

Table 104. Asia-Pacific LED Epitaxial Wafer Sales Quantity by Region (2027-2032) & (Million Pcs)

Table 105. Asia-Pacific LED Epitaxial Wafer Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific LED Epitaxial Wafer Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America LED Epitaxial Wafer Sales Quantity by Type (2021-2026) & (Million Pcs)

Table 108. South America LED Epitaxial Wafer Sales Quantity by Type (2027-2032) & (Million Pcs)

Table 109. South America LED Epitaxial Wafer Sales Quantity by Application (2021-2026) & (Million Pcs)

Table 110. South America LED Epitaxial Wafer Sales Quantity by Application (2027-2032) & (Million Pcs)

Table 111. South America LED Epitaxial Wafer Sales Quantity by Country (2021-2026) & (Million Pcs)

Table 112. South America LED Epitaxial Wafer Sales Quantity by Country (2027-2032) & (Million Pcs)

Table 113. South America LED Epitaxial Wafer Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America LED Epitaxial Wafer Consumption Value by Country
(2027-2032) & (USD Million)

Table 115. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Type
(2021-2026) & (Million Pcs)

Table 116. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Type
(2027-2032) & (Million Pcs)

Table 117. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Application
(2021-2026) & (Million Pcs)

Table 118. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Application
(2027-2032) & (Million Pcs)

Table 119. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Country
(2021-2026) & (Million Pcs)

Table 120. Middle East & Africa LED Epitaxial Wafer Sales Quantity by Country
(2027-2032) & (Million Pcs)

Table 121. Middle East & Africa LED Epitaxial Wafer Consumption Value by Country
(2021-2026) & (USD Million)

Table 122. Middle East & Africa LED Epitaxial Wafer Consumption Value by Country
(2027-2032) & (USD Million)

Table 123. LED Epitaxial Wafer Raw Material

Table 124. Key Manufacturers of LED Epitaxial Wafer Raw Materials

Table 125. LED Epitaxial Wafer Typical Distributors

Table 126. LED Epitaxial Wafer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. LED Epitaxial Wafer Picture

Figure 2. Global LED Epitaxial Wafer Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global LED Epitaxial Wafer Revenue Market Share by Type in 2025

Figure 4. 6 Inches Examples

Figure 5. 4 Inches Examples

Figure 6. 2 Inches Examples

Figure 7. Other Examples

Figure 8. Global LED Epitaxial Wafer Revenue by Emission Band, (USD Million), 2021 & 2025 & 2032

Figure 9. Global LED Epitaxial Wafer Revenue Market Share by Emission Band in 2025

Figure 10. UV LED Epitaxial Wafer Examples

Figure 11. Visible LED Epitaxial Wafer Examples

Figure 12. IR LED Epitaxial Wafer Examples

Figure 13. Global LED Epitaxial Wafer Revenue by Substrate Platform, (USD Million), 2021 & 2025 & 2032

Figure 14. Global LED Epitaxial Wafer Revenue Market Share by Substrate Platform in 2025

Figure 15. Sapphire-Based Epitaxial Wafer Examples

Figure 16. GaAs-Based Epitaxial Wafer Examples

Figure 17. Silicon-Based Epitaxial Wafer Examples

Figure 18. Other-Substrate Epitaxial Wafer Examples

Figure 19. Global LED Epitaxial Wafer Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 20. Global LED Epitaxial Wafer Revenue Market Share by Application in 2025

Figure 21. Illumination Examples

Figure 22. Backlight Examples

Figure 23. Monitor Examples

Figure 24. Indicator Light Examples

Figure 25. Other Examples

Figure 26. Global LED Epitaxial Wafer Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 27. Global LED Epitaxial Wafer Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 28. Global LED Epitaxial Wafer Sales Quantity (2021-2032) & (Million Pcs)

Figure 29. Global LED Epitaxial Wafer Price (2021-2032) & (US\$/Pcs)

Figure 30. Global LED Epitaxial Wafer Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global LED Epitaxial Wafer Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of LED Epitaxial Wafer by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 LED Epitaxial Wafer Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 LED Epitaxial Wafer Manufacturer (Revenue) Market Share in 2025

Figure 35. Global LED Epitaxial Wafer Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global LED Epitaxial Wafer Consumption Value Market Share by Region (2021-2032)

Figure 37. North America LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 40. South America LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 42. Global LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global LED Epitaxial Wafer Consumption Value Market Share by Type (2021-2032)

Figure 44. Global LED Epitaxial Wafer Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 45. Global LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global LED Epitaxial Wafer Revenue Market Share by Application (2021-2032)

Figure 47. Global LED Epitaxial Wafer Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 48. North America LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America LED Epitaxial Wafer Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America LED Epitaxial Wafer Consumption Value Market Share by Country (2021-2032)

Figure 52. United States LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe LED Epitaxial Wafer Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe LED Epitaxial Wafer Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 60. France LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific LED Epitaxial Wafer Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific LED Epitaxial Wafer Consumption Value Market Share by Region (2021-2032)

Figure 68. China LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 71. India LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Million)

Figure 74. South America LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America LED Epitaxial Wafer Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America LED Epitaxial Wafer Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa LED Epitaxial Wafer Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa LED Epitaxial Wafer Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa LED Epitaxial Wafer Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa LED Epitaxial Wafer Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa LED Epitaxial Wafer Consumption Value (2021-2032) & (USD Million)

Figure 88. LED Epitaxial Wafer Market Drivers

Figure 89. LED Epitaxial Wafer Market Restraints

Figure 90. LED Epitaxial Wafer Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of LED Epitaxial Wafer in 2025

Figure 93. Manufacturing Process Analysis of LED Epitaxial Wafer

Figure 94. LED Epitaxial Wafer Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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