

Global Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip market size was valued at US\$ 722 million in 2025 and is forecast to a readjusted size of US\$ 1531 million by 2032 with a CAGR of 11.5% during review period.

In 2025, the global production volume of lightweight intelligent vision chips reached 35.0625 million units, with an average selling price of 20 USD per unit. The global annual production capacity of lightweight intelligent vision chips is approximately 50 million units, and the gross profit margin is around 27.2%. A lightweight intelligent vision chip is an integrated circuit chip specifically designed for vision processing, aimed at achieving fast, low-power image and video processing while supporting artificial intelligence (AI)-related vision computing tasks. It typically combines hardware acceleration and optimized algorithms, enabling devices to realize intelligent vision applications under resource-constrained conditions. The upstream of lightweight intelligent vision chips includes silicon wafers, photoresist, specialty gases, and others. The midstream consists of lightweight intelligent vision chip manufacturers, while the downstream mainly covers smart IP cameras, smart doorbells, and smart display cameras.

The current market for lightweight intelligent vision chips is in a phase of rapid expansion, primarily driven by the sustained increase in demand for low-power, low-cost edge intelligent computing from terminal devices. As a core component enabling real-time front-end visual perception and processing, the lightweight intelligent vision chip can efficiently perform AI tasks such as image recognition and object detection without relying on cloud or high-performance computing platforms. With the continuous

enrichment of application scenarios such as smart security, smart home, and smart office, the market is placing higher demands on the integration level and energy efficiency of such chips, driving continuous iteration toward higher computing power and lower power consumption. Overall, the industry is moving toward more efficient, easier-to-deploy, and more general-purpose edge intelligence solutions.

This report is a detailed and comprehensive analysis for global Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Lightweight Intelligent Vision Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Lightweight Intelligent Vision Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Lightweight Intelligent Vision Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 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 Lightweight Intelligent Vision Chip

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 Lightweight Intelligent Vision Chip 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 NXP, Silicon Labs, Renesas Electronics, Analog Devices, Texas Instruments, ON Semiconductor, Epson Ics, Nextchip, Goke Microelectronics, AXERA, etc.

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

Market Segmentation

Lightweight Intelligent Vision Chip 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

Less Than 5 TOPS

5 TOPS-10 TOPS

More Than 10 TOPS

Market segment by Computing Power Requirements

Light Computing Power

Medium Computing Power

High Computing Power

Market segment by Functional Positioning

AI ISP Chip

NPU Vision Chip

Converged Chip

Market segment by Application

Smart Network Camera

Smart Doorbell

Smart Screen Camera

In-Vehicle Vision Products

Others

Major players covered

NXP

Silicon Labs

Renesas Electronics

Analog Devices

Texas Instruments

ON Semiconductor

Epson Ics

Nextchip

Goke Microelectronics

AXERA

HISILICON

Shanghai NextVPU

Rockchip Electronics

Fullhan Microelectronics

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 Lightweight Intelligent Vision Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lightweight Intelligent Vision Chip, with price, sales quantity, revenue, and global market share of Lightweight Intelligent Vision Chip from 2021 to 2026.

Chapter 3, the Lightweight Intelligent Vision Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip.

Chapter 14 and 15, to describe Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Less Than 5 TOPS

1.3.3 5 TOPS-10 TOPS

1.3.4 More Than 10 TOPS

1.4 Market Analysis by Computing Power Requirements

1.4.1 Overview: Global Lightweight Intelligent Vision Chip Consumption Value by Computing Power Requirements: 2021 Versus 2025 Versus 2032

1.4.2 Light Computing Power

1.4.3 Medium Computing Power

1.4.4 High Computing Power

1.5 Market Analysis by Functional Positioning

1.5.1 Overview: Global Lightweight Intelligent Vision Chip Consumption Value by Functional Positioning: 2021 Versus 2025 Versus 2032

1.5.2 AI ISP Chip

1.5.3 NPU Vision Chip

1.5.4 Converged Chip

1.6 Market Analysis by Application

1.6.1 Overview: Global Lightweight Intelligent Vision Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Smart Network Camera

1.6.3 Smart Doorbell

1.6.4 Smart Screen Camera

1.6.5 In-Vehicle Vision Products

1.6.6 Others

1.7 Global Lightweight Intelligent Vision Chip Market Size & Forecast

1.7.1 Global Lightweight Intelligent Vision Chip Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Lightweight Intelligent Vision Chip Sales Quantity (2021-2032)

1.7.3 Global Lightweight Intelligent Vision Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 NXP

2.1.1 NXP Details

2.1.2 NXP Major Business

2.1.3 NXP Lightweight Intelligent Vision Chip Product and Services

2.1.4 NXP Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 NXP Recent Developments/Updates

2.2 Silicon Labs

2.2.1 Silicon Labs Details

2.2.2 Silicon Labs Major Business

2.2.3 Silicon Labs Lightweight Intelligent Vision Chip Product and Services

2.2.4 Silicon Labs Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Silicon Labs Recent Developments/Updates

2.3 Renesas Electronics

2.3.1 Renesas Electronics Details

2.3.2 Renesas Electronics Major Business

2.3.3 Renesas Electronics Lightweight Intelligent Vision Chip Product and Services

2.3.4 Renesas Electronics Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Renesas Electronics Recent Developments/Updates

2.4 Analog Devices

2.4.1 Analog Devices Details

2.4.2 Analog Devices Major Business

2.4.3 Analog Devices Lightweight Intelligent Vision Chip Product and Services

2.4.4 Analog Devices Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Analog Devices Recent Developments/Updates

2.5 Texas Instruments

2.5.1 Texas Instruments Details

2.5.2 Texas Instruments Major Business

2.5.3 Texas Instruments Lightweight Intelligent Vision Chip Product and Services

2.5.4 Texas Instruments Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Texas Instruments Recent Developments/Updates

2.6 ON Semiconductor

2.6.1 ON Semiconductor Details

2.6.2 ON Semiconductor Major Business

- 2.6.3 ON Semiconductor Lightweight Intelligent Vision Chip Product and Services
- 2.6.4 ON Semiconductor Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 ON Semiconductor Recent Developments/Updates
- 2.7 Epson Ics
 - 2.7.1 Epson Ics Details
 - 2.7.2 Epson Ics Major Business
 - 2.7.3 Epson Ics Lightweight Intelligent Vision Chip Product and Services
 - 2.7.4 Epson Ics Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Epson Ics Recent Developments/Updates
- 2.8 Nextchip
 - 2.8.1 Nextchip Details
 - 2.8.2 Nextchip Major Business
 - 2.8.3 Nextchip Lightweight Intelligent Vision Chip Product and Services
 - 2.8.4 Nextchip Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Nextchip Recent Developments/Updates
- 2.9 Goke Microelectronics
 - 2.9.1 Goke Microelectronics Details
 - 2.9.2 Goke Microelectronics Major Business
 - 2.9.3 Goke Microelectronics Lightweight Intelligent Vision Chip Product and Services
 - 2.9.4 Goke Microelectronics Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Goke Microelectronics Recent Developments/Updates
- 2.10 AXERA
 - 2.10.1 AXERA Details
 - 2.10.2 AXERA Major Business
 - 2.10.3 AXERA Lightweight Intelligent Vision Chip Product and Services
 - 2.10.4 AXERA Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 AXERA Recent Developments/Updates
- 2.11 HISILICON
 - 2.11.1 HISILICON Details
 - 2.11.2 HISILICON Major Business
 - 2.11.3 HISILICON Lightweight Intelligent Vision Chip Product and Services
 - 2.11.4 HISILICON Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 HISILICON Recent Developments/Updates

2.12 Shanghai NextVPU

2.12.1 Shanghai NextVPU Details

2.12.2 Shanghai NextVPU Major Business

2.12.3 Shanghai NextVPU Lightweight Intelligent Vision Chip Product and Services

2.12.4 Shanghai NextVPU Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Shanghai NextVPU Recent Developments/Updates

2.13 Rockchip Electronics

2.13.1 Rockchip Electronics Details

2.13.2 Rockchip Electronics Major Business

2.13.3 Rockchip Electronics Lightweight Intelligent Vision Chip Product and Services

2.13.4 Rockchip Electronics Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Rockchip Electronics Recent Developments/Updates

2.14 Fullhan Microelectronics

2.14.1 Fullhan Microelectronics Details

2.14.2 Fullhan Microelectronics Major Business

2.14.3 Fullhan Microelectronics Lightweight Intelligent Vision Chip Product and Services

2.14.4 Fullhan Microelectronics Lightweight Intelligent Vision Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Fullhan Microelectronics Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LIGHTWEIGHT INTELLIGENT VISION CHIP BY MANUFACTURER

3.1 Global Lightweight Intelligent Vision Chip Sales Quantity by Manufacturer (2021-2026)

3.2 Global Lightweight Intelligent Vision Chip Revenue by Manufacturer (2021-2026)

3.3 Global Lightweight Intelligent Vision Chip Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Lightweight Intelligent Vision Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Lightweight Intelligent Vision Chip Manufacturer Market Share in 2025

3.4.3 Top 6 Lightweight Intelligent Vision Chip Manufacturer Market Share in 2025

3.5 Lightweight Intelligent Vision Chip Market: Overall Company Footprint Analysis

3.5.1 Lightweight Intelligent Vision Chip Market: Region Footprint

3.5.2 Lightweight Intelligent Vision Chip Market: Company Product Type Footprint

- 3.5.3 Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Market Size by Region
 - 4.1.1 Global Lightweight Intelligent Vision Chip Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Lightweight Intelligent Vision Chip Consumption Value by Region (2021-2032)
 - 4.1.3 Global Lightweight Intelligent Vision Chip Average Price by Region (2021-2032)
- 4.2 North America Lightweight Intelligent Vision Chip Consumption Value (2021-2032)
- 4.3 Europe Lightweight Intelligent Vision Chip Consumption Value (2021-2032)
- 4.4 Asia-Pacific Lightweight Intelligent Vision Chip Consumption Value (2021-2032)
- 4.5 South America Lightweight Intelligent Vision Chip Consumption Value (2021-2032)
- 4.6 Middle East & Africa Lightweight Intelligent Vision Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)
- 5.2 Global Lightweight Intelligent Vision Chip Consumption Value by Type (2021-2032)
- 5.3 Global Lightweight Intelligent Vision Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)
- 6.2 Global Lightweight Intelligent Vision Chip Consumption Value by Application (2021-2032)
- 6.3 Global Lightweight Intelligent Vision Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)
- 7.2 North America Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)
- 7.3 North America Lightweight Intelligent Vision Chip Market Size by Country

7.3.1 North America Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2032)

7.3.2 North America Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)

8.2 Europe Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)

8.3 Europe Lightweight Intelligent Vision Chip Market Size by Country

8.3.1 Europe Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2032)

8.3.2 Europe Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Lightweight Intelligent Vision Chip Market Size by Region

9.3.1 Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)

10.2 South America Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)

10.3 South America Lightweight Intelligent Vision Chip Market Size by Country

10.3.1 South America Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2032)

10.3.2 South America Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Lightweight Intelligent Vision Chip Market Size by Country

11.3.1 Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Market Drivers

12.2 Lightweight Intelligent Vision Chip Market Restraints

12.3 Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Lightweight Intelligent Vision Chip
- 13.3 Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Typical Distributors
- 14.3 Lightweight Intelligent Vision Chip 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 Lightweight Intelligent Vision Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Lightweight Intelligent Vision Chip Consumption Value by Computing Power Requirements, (USD Million), 2021 & 2025 & 2032

Table 3. Global Lightweight Intelligent Vision Chip Consumption Value by Functional Positioning, (USD Million), 2021 & 2025 & 2032

Table 4. Global Lightweight Intelligent Vision Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. NXP Basic Information, Manufacturing Base and Competitors

Table 6. NXP Major Business

Table 7. NXP Lightweight Intelligent Vision Chip Product and Services

Table 8. NXP Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. NXP Recent Developments/Updates

Table 10. Silicon Labs Basic Information, Manufacturing Base and Competitors

Table 11. Silicon Labs Major Business

Table 12. Silicon Labs Lightweight Intelligent Vision Chip Product and Services

Table 13. Silicon Labs Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Silicon Labs Recent Developments/Updates

Table 15. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 16. Renesas Electronics Major Business

Table 17. Renesas Electronics Lightweight Intelligent Vision Chip Product and Services

Table 18. Renesas Electronics Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Renesas Electronics Recent Developments/Updates

Table 20. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 21. Analog Devices Major Business

Table 22. Analog Devices Lightweight Intelligent Vision Chip Product and Services

Table 23. Analog Devices Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Analog Devices Recent Developments/Updates

Table 25. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 26. Texas Instruments Major Business

Table 27. Texas Instruments Lightweight Intelligent Vision Chip Product and Services

Table 28. Texas Instruments Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Texas Instruments Recent Developments/Updates

Table 30. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 31. ON Semiconductor Major Business

Table 32. ON Semiconductor Lightweight Intelligent Vision Chip Product and Services

Table 33. ON Semiconductor Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. ON Semiconductor Recent Developments/Updates

Table 35. Epson Ics Basic Information, Manufacturing Base and Competitors

Table 36. Epson Ics Major Business

Table 37. Epson Ics Lightweight Intelligent Vision Chip Product and Services

Table 38. Epson Ics Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Epson Ics Recent Developments/Updates

Table 40. Nextchip Basic Information, Manufacturing Base and Competitors

Table 41. Nextchip Major Business

Table 42. Nextchip Lightweight Intelligent Vision Chip Product and Services

Table 43. Nextchip Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Nextchip Recent Developments/Updates

Table 45. Goke Microelectronics Basic Information, Manufacturing Base and Competitors

Table 46. Goke Microelectronics Major Business

Table 47. Goke Microelectronics Lightweight Intelligent Vision Chip Product and Services

Table 48. Goke Microelectronics Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Goke Microelectronics Recent Developments/Updates

Table 50. AXERA Basic Information, Manufacturing Base and Competitors

Table 51. AXERA Major Business

Table 52. AXERA Lightweight Intelligent Vision Chip Product and Services

Table 53. AXERA Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. AXERA Recent Developments/Updates

Table 55. HISILICON Basic Information, Manufacturing Base and Competitors

Table 56. HISILICON Major Business

Table 57. HISILICON Lightweight Intelligent Vision Chip Product and Services

Table 58. HISILICON Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. HISILICON Recent Developments/Updates

Table 60. Shanghai NextVPU Basic Information, Manufacturing Base and Competitors

Table 61. Shanghai NextVPU Major Business

Table 62. Shanghai NextVPU Lightweight Intelligent Vision Chip Product and Services

Table 63. Shanghai NextVPU Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Shanghai NextVPU Recent Developments/Updates

Table 65. Rockchip Electronics Basic Information, Manufacturing Base and Competitors

Table 66. Rockchip Electronics Major Business

Table 67. Rockchip Electronics Lightweight Intelligent Vision Chip Product and Services

Table 68. Rockchip Electronics Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Rockchip Electronics Recent Developments/Updates

Table 70. Fullhan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 71. Fullhan Microelectronics Major Business

Table 72. Fullhan Microelectronics Lightweight Intelligent Vision Chip Product and Services

Table 73. Fullhan Microelectronics Lightweight Intelligent Vision Chip Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Fullhan Microelectronics Recent Developments/Updates

Table 75. Global Lightweight Intelligent Vision Chip Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 76. Global Lightweight Intelligent Vision Chip Revenue by Manufacturer (2021-2026) & (USD Million)

Table 77. Global Lightweight Intelligent Vision Chip Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in Lightweight Intelligent Vision Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and Lightweight Intelligent Vision Chip Production Site of Key Manufacturer

Table 80. Lightweight Intelligent Vision Chip Market: Company Product Type Footprint

Table 81. Lightweight Intelligent Vision Chip Market: Company Product Application Footprint

Table 82. Lightweight Intelligent Vision Chip New Market Entrants and Barriers to Market Entry

Table 83. Lightweight Intelligent Vision Chip Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global Lightweight Intelligent Vision Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global Lightweight Intelligent Vision Chip Sales Quantity by Region (2021-2026) & (Million Units)

Table 86. Global Lightweight Intelligent Vision Chip Sales Quantity by Region (2027-2032) & (Million Units)

Table 87. Global Lightweight Intelligent Vision Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global Lightweight Intelligent Vision Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global Lightweight Intelligent Vision Chip Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global Lightweight Intelligent Vision Chip Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 92. Global Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 93. Global Lightweight Intelligent Vision Chip Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global Lightweight Intelligent Vision Chip Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global Lightweight Intelligent Vision Chip Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global Lightweight Intelligent Vision Chip Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 98. Global Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 99. Global Lightweight Intelligent Vision Chip Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global Lightweight Intelligent Vision Chip Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global Lightweight Intelligent Vision Chip Average Price by Application (2021-2026) & (US\$/Unit)

Table 102. Global Lightweight Intelligent Vision Chip Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 104. North America Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 105. North America Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 106. North America Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 107. North America Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 108. North America Lightweight Intelligent Vision Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 109. North America Lightweight Intelligent Vision Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America Lightweight Intelligent Vision Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 112. Europe Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 113. Europe Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 114. Europe Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 115. Europe Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 116. Europe Lightweight Intelligent Vision Chip Sales Quantity by Country

(2027-2032) & (Million Units)

Table 117. Europe Lightweight Intelligent Vision Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Europe Lightweight Intelligent Vision Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 120. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 121. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 122. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 123. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Region (2021-2026) & (Million Units)

Table 124. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity by Region (2027-2032) & (Million Units)

Table 125. Asia-Pacific Lightweight Intelligent Vision Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific Lightweight Intelligent Vision Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 128. South America Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 129. South America Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 130. South America Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 131. South America Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 132. South America Lightweight Intelligent Vision Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 133. South America Lightweight Intelligent Vision Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America Lightweight Intelligent Vision Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Type (2021-2026) & (Million Units)

Table 136. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Type (2027-2032) & (Million Units)

Table 137. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Application (2021-2026) & (Million Units)

Table 138. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Application (2027-2032) & (Million Units)

Table 139. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Country (2021-2026) & (Million Units)

Table 140. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity by Country (2027-2032) & (Million Units)

Table 141. Middle East & Africa Lightweight Intelligent Vision Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa Lightweight Intelligent Vision Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 143. Lightweight Intelligent Vision Chip Raw Material

Table 144. Key Manufacturers of Lightweight Intelligent Vision Chip Raw Materials

Table 145. Lightweight Intelligent Vision Chip Typical Distributors

Table 146. Lightweight Intelligent Vision Chip Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Lightweight Intelligent Vision Chip Picture
- Figure 2. Global Lightweight Intelligent Vision Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Lightweight Intelligent Vision Chip Revenue Market Share by Type in 2025
- Figure 4. Less Than 5 TOPS Examples
- Figure 5. 5 TOPS-10 TOPS Examples
- Figure 6. More Than 10 TOPS Examples
- Figure 7. Global Lightweight Intelligent Vision Chip Revenue by Computing Power Requirements, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Lightweight Intelligent Vision Chip Revenue Market Share by Computing Power Requirements in 2025
- Figure 9. Light Computing Power Examples
- Figure 10. Medium Computing Power Examples
- Figure 11. High Computing Power Examples
- Figure 12. Global Lightweight Intelligent Vision Chip Revenue by Functional Positioning, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Lightweight Intelligent Vision Chip Revenue Market Share by Functional Positioning in 2025
- Figure 14. AI ISP Chip Examples
- Figure 15. NPU Vision Chip Examples
- Figure 16. Converged Chip Examples
- Figure 17. Global Lightweight Intelligent Vision Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Lightweight Intelligent Vision Chip Revenue Market Share by Application in 2025
- Figure 19. Smart Network Camera Examples
- Figure 20. Smart Doorbell Examples
- Figure 21. Smart Screen Camera Examples
- Figure 22. In-Vehicle Vision Products Examples
- Figure 23. Others Examples
- Figure 24. Global Lightweight Intelligent Vision Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Lightweight Intelligent Vision Chip Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Lightweight Intelligent Vision Chip Sales Quantity (2021-2032) & (Million Units)

Figure 27. Global Lightweight Intelligent Vision Chip Price (2021-2032) & (US\$/Unit)

Figure 28. Global Lightweight Intelligent Vision Chip Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Lightweight Intelligent Vision Chip Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Lightweight Intelligent Vision Chip by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Lightweight Intelligent Vision Chip Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Lightweight Intelligent Vision Chip Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Lightweight Intelligent Vision Chip Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Lightweight Intelligent Vision Chip Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Lightweight Intelligent Vision Chip Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Lightweight Intelligent Vision Chip Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Lightweight Intelligent Vision Chip Revenue Market Share by Application (2021-2032)

Figure 45. Global Lightweight Intelligent Vision Chip Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Lightweight Intelligent Vision Chip Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Lightweight Intelligent Vision Chip Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Lightweight Intelligent Vision Chip Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 58. France Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Lightweight Intelligent Vision Chip Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Lightweight Intelligent Vision Chip Consumption Value Market

Share by Region (2021-2032)

Figure 66. China Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 69. India Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Lightweight Intelligent Vision Chip Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Lightweight Intelligent Vision Chip Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Lightweight Intelligent Vision Chip Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Lightweight Intelligent Vision Chip Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Lightweight Intelligent Vision Chip Consumption Value (2021-2032) & (USD Million)

Figure 86. Lightweight Intelligent Vision Chip Market Drivers

Figure 87. Lightweight Intelligent Vision Chip Market Restraints

Figure 88. Lightweight Intelligent Vision Chip Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Lightweight Intelligent Vision Chip in 2025

Figure 91. Manufacturing Process Analysis of Lightweight Intelligent Vision Chip

Figure 92. Lightweight Intelligent Vision Chip Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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