

Global IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules market size was valued at US\$ 2933 million in 2025 and is forecast to a readjusted size of US\$ 5236 million by 2032 with a CAGR of 8.5% during review period.

IoT / AIoT embedded camera modules are board-level or module-level visual sensing components designed to be integrated into connected devices, smart hardware, edge AI systems and embedded vision platforms. A typical module combines a CMOS image sensor, optical lens, filter, FPC or PCB, connector, firmware and mechanical elements, and may further integrate an ISP, MCU, NPU, memory, microphone, IMU, infrared illumination, RGB-IR capability, time-of-flight sensing, stereo depth or structured-light functions depending on the target application. These modules connect to host processors, edge AI platforms, single-board computers or connected terminals through interfaces such as MIPI CSI-2, USB/UVC, DVP, SPI, GMSL, FPD-Link, Ethernet or Wi-Fi, enabling image capture, video streaming, depth sensing, low-power visual wake-up, on-device AI recognition and remote video interaction. This study focuses on camera modules used in smart home devices, video doorbells, service robots, AMRs, drones, industrial AI, machine vision, retail terminals, access control, medical equipment, wearables, smart agriculture and smart city applications.

Based on our research, the IoT camera module market should not be treated as a direct extension of the finished IP camera market or the smartphone camera module market. In a narrow and professional scope, it is a component and subsystem market located at the intersection of optical module manufacturing, embedded vision, edge AI and connected hardware. The value of the product lies in packaging an image sensor,

optics, PCB or FPC, connector, firmware, interface design and optional ISP, MCU, NPU or depth-sensing functions into a module that device makers can integrate quickly. Therefore, the proper statistical boundary must exclude smartphone camera modules, automotive ADAS camera modules and finished IP cameras, while retaining board-level cameras, MIPI and USB modules, smart vision modules, AI camera modules and depth-sensing modules used in smart home devices, robotics, industrial AI, access control, medical equipment, retail terminals and smart city applications. MIPI CSI-2 and USB/UVC remain the two most important mainstream interfaces, while GMSL and FPD-Link are becoming more relevant in robotics and long-cable environments. AI-enabled and depth-sensing modules represent the higher-ASP portion of the market and are increasingly important for differentiation.

From the supply side, the industry has a clear two-layer structure. The first layer consists of high-volume Asian optical and camera module manufacturers. Their strengths are manufacturing scale, optical assembly know-how, cost control, quality management and relationships with consumer electronics customers. The second layer consists of embedded vision and specialty module suppliers. These companies may not always lead in unit shipments, but they are stronger in industrial reliability, software drivers, host platform integration, long-lifecycle support, depth sensing, multi-camera synchronization and high-mix OEM customization. China, especially Shenzhen and Dongguan, together with Taiwan, forms a large long-tail ODM base for camera boards and IoT camera modules. These companies are often financially opaque, but many are real manufacturers and should remain in the longlist or extended list when official product evidence exists.

Demand growth is shifting from simple video capture toward intelligent visual sensing. Smart home cameras, video doorbells and IPC board modules still contribute the largest shipment base, but the higher-value growth is increasingly coming from robotics, AMRs, drones, industrial AI, medical devices, retail terminals, access control and 3D perception. The addition of camera-related device support in Matter improves the long-term interoperability environment for smart home video products, but it does not automatically translate into module revenue. Module suppliers still need to win through lower power consumption, lower latency, better image quality, privacy-aware processing, edge inference capability and stronger platform compatibility. In robotics and industrial applications, requirements such as global shutter, HDR, low-light performance, thermal stability, long-cable transmission, multi-camera calibration and SDK support are becoming more important. These requirements support a structurally higher ASP for industrial and AI/depth modules compared with low-end consumer IoT camera modules.

The product roadmap is moving from a simple image capture component toward a visual sensing subsystem. Low-end modules will continue to compete on cost, compactness and standard interfaces, while mid-to-high-end modules will compete on ISP performance, HDR, global shutter, RGB-IR, synchronized MIPI, GMSL or FPD-Link connectivity, ToF or stereo depth, on-module AI and low-power visual wake-up. Recent product moves such as Raspberry Pi's AI Camera, RealSense's independent continuation as a depth module provider, Stereolabs' MIPI camera module for robotics OEMs and Transcend's expansion into embedded camera modules all point to a broader redefinition of the market around edge AI and embedded vision. We estimate the narrow-scope global IoT / AIoT embedded camera module market at USD 2.85 billion in 2025, rising to USD 3.12 billion in 2026, with an estimated CAGR of 8.70% from 2026 to 2032. The main risks are consumer price erosion, vertical integration by finished camera brands, more integrated sensor-plus-SoC architectures and privacy or security regulation, but the market should remain structurally attractive due to its role as a core visual input layer for connected intelligent devices.

This report is a detailed and comprehensive analysis for global IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules

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 IoT / AIoT Embedded Camera Modules 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 Sunny Optical Technology (Group) Company Limited, Q Technology (Group) Company Limited, LITE-ON Technology Corporation, Primax Electronics Ltd., Samsung Electro-Mechanics Co., Ltd., LG Innotek Co., Ltd., e-con Systems, Leopard Imaging Inc., Basler AG, Allied Vision Technologies GmbH, etc.

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

Market Segmentation

IoT / AIoT Embedded Camera Modules 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

COB Package

FC Package

CSP Packaging

MOB/MOC Packaging

Market segment by Imaging Modality

2D RGB / Monochrome Modules

RGB-IR / NIR Modules

ToF / Structured Light Modules

Thermal / Multispectral Modules

Other Imaging Modules

Market segment by Interface Type

MIPI CSI-2 Camera Modules

USB / UVC Camera Modules

DVP / SPI / Parallel Camera Modules

GMSL / FPD-Link Camera Modules

Ethernet / PoE / IP Board Modules

Other Interface Modules

Market segment by Application

Smart Home & Video Doorbells

Robotics, AMR & UAV

Industrial AI & Machine Vision IoT

Retail, Kiosk & Access Control

Medical, Wearables & Telehealth

Smart City, Agriculture & Logistics

Other Applications

Major players covered

Sunny Optical Technology (Group) Company Limited

Q Technology (Group) Company Limited

LITE-ON Technology Corporation

Primax Electronics Ltd.

Samsung Electro-Mechanics Co., Ltd.

LG Innotek Co., Ltd.

e-con Systems

Leopard Imaging Inc.

Basler AG

Allied Vision Technologies GmbH

IDS Imaging Development Systems GmbH

The Imaging Source Europe GmbH

FRAMOS GmbH

Vision Components GmbH

RealSense Inc.

Orbbec

Luxonis

Stereolabs Inc.

pmdtechnologies ag

Raspberry Pi Ltd

Arducam

OMNIVISION Technologies, Inc.

Innodisk Corporation

D3 Embedded

Spinel Electronics

Videology Imaging Solutions

Ability Enterprise Co., Ltd.

Transcend Information, Inc.

Holitech Technology Co., Ltd.

OpenMV, LLC

Seeed Technology Co., Ltd.

Supertek

Shenzhen CM Technology Co., Ltd.

Shenzhen Sinoseen Technology Co., Ltd.

CAMEMAKE

Shenzhen CK Vision Technology Ltd.

CCDCAM

Shenzhen Anjvision Information Technology Co., Ltd.

OFILM Group Co., Ltd.

Truly International Holdings Limited

MCNEX Co., Ltd.

PARTRON Co., Ltd.

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 IoT / AIoT Embedded Camera Modules product scope, market

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of IoT / AIoT Embedded Camera Modules, with price, sales quantity, revenue, and global market share of IoT / AIoT Embedded Camera Modules from 2021 to 2026.

Chapter 3, the IoT / AIoT Embedded Camera Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules 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 IoT / AIoT Embedded Camera Modules.

Chapter 14 and 15, to describe IoT / AIoT Embedded Camera Modules sales channel, distributors, customers, research findings and conclusion.

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