

# Global Dual-gate Phototransistors 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 Dual-gate Phototransistors market size was valued at US\$ 196 million in 2025 and is forecast to a readjusted size of US\$ 361 million by 2032 with a CAGR of 9.1% during review period.

In 2025, global Dual-gate Phototransistor output was about 420 million units, with 650 million units per year in global capacity. The average price is around USD 0.45, and gross margins are about 28%. Dual-gate phototransistors are optoelectronic semiconductor devices that combine a light-sensitive transistor channel with two independent gate electrodes, allowing electrical modulation of the photocurrent and enabling higher sensitivity, tunable gain, and improved signal control compared with single-gate phototransistors. They are used in applications such as optical sensors, imaging systems, optical communication receivers, and neuromorphic or artificial vision devices. The supply chain begins upstream with semiconductor materials and substrates (silicon, III-V compounds, oxide semiconductors, or 2D materials), dielectric layers, metal gate electrodes, and photonic interface materials supplied by specialty chemical and wafer manufacturers; midstream production involves semiconductor fabrication processes including photolithography, thin-film deposition, doping, and device integration performed by semiconductor foundries and sensor manufacturers; downstream activities include packaging, testing, and module integration by optoelectronics and sensor companies, followed by deployment in end-user sectors such as consumer electronics, industrial sensing, autonomous systems, medical imaging, and optical communication equipment.

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

Global Dual-gate Phototransistors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Dual-gate Phototransistors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Dual-gate Phototransistors market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Dual-gate Phototransistors

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 Dual-gate Phototransistors 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 Vishay Intertechnology, ams-OSRAM, ROHM, onsemi, TT Electronics, Excelitas, Everlight, Kingbright, Lite-On, Stanley Electric, etc.

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

### **Market Segmentation**

Dual-gate Phototransistors 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

Planar Dual-gate Phototransistors

Vertical Dual-gate Phototransistors

#### Market segment by Gate Control Configuration

Symmetric Dual-gate Phototransistors

Asymmetric Dual-gate Phototransistors

#### Market segment by Application

Industrial Automation

Telecommunications

Automotive Electronics

Medical Devices

Others

#### Major players covered

Vishay Intertechnology

ams-OSRAM

ROHM

onsemi

TT Electronics

Excelitas

Everlight

Kingbright

Lite-On

Stanley Electric

Kodenshi

Marktech Optoelectronics

Harvatek

Optoi Microelectronics

Tyntek

Broadcom

Sharp

Panasonic

Toshiba

Renesas Electronics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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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 Dual-gate Phototransistors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dual-gate Phototransistors, with price, sales quantity, revenue, and global market share of Dual-gate Phototransistors from 2021 to 2026.

Chapter 3, the Dual-gate Phototransistors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dual-gate Phototransistors 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 Dual-gate Phototransistors 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 Dual-gate Phototransistors.

Chapter 14 and 15, to describe Dual-gate Phototransistors sales channel, distributors, customers, research findings and conclusion.

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