

# Global Dual-gate Phototransistors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Dual-gate Phototransistors market size is expected to reach \$ 361 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

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 studies the global Dual-gate Phototransistors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dual-gate

Phototransistors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Dual-gate Phototransistors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Dual-gate Phototransistors total production and demand, 2021-2032, (K Units)

Global Dual-gate Phototransistors total production value, 2021-2032, (USD Million)

Global Dual-gate Phototransistors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Dual-gate Phototransistors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Dual-gate Phototransistors domestic production, consumption, key domestic manufacturers and share

Global Dual-gate Phototransistors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Dual-gate Phototransistors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Dual-gate Phototransistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dual-gate Phototransistors market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Dual-gate Phototransistors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Dual-gate Phototransistors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Dual-gate Phototransistors Market, Segmentation by Type:

Planar Dual-gate Phototransistors

Vertical Dual-gate Phototransistors

### Global Dual-gate Phototransistors Market, Segmentation by Gate Control Configuration:

Symmetric Dual-gate Phototransistors

## Asymmetric Dual-gate Phototransistors

### Global Dual-gate Phototransistors Market, Segmentation by Application:

Industrial Automation

Telecommunications

Automotive Electronics

Medical Devices

Others

### Companies Profiled:

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

**Key Questions Answered:**

1. How big is the global Dual-gate Phototransistors market?
2. What is the demand of the global Dual-gate Phototransistors market?
3. What is the year over year growth of the global Dual-gate Phototransistors market?
4. What is the production and production value of the global Dual-gate Phototransistors market?
5. Who are the key producers in the global Dual-gate Phototransistors market?
6. What are the growth factors driving the market demand?

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