

# Global Dual-gate Phototransistors Market Growth 2026-2032

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## Abstracts

The global Dual-gate Phototransistors market size is predicted to grow from US\$ 186 million in 2025 to US\$ 354 million in 2032; it is expected to grow at a CAGR of 9.6% from 2026 to 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.

United States market for Dual-gate Phototransistors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Dual-gate Phototransistors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Dual-gate Phototransistors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Dual-gate Phototransistors players cover Vishay Intertechnology, ams-OSRAM, ROHM, onsemi, TT Electronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Dual-gate Phototransistors Industry Forecast? looks at past sales and reviews total world Dual-gate Phototransistors sales in 2025, providing a comprehensive analysis by region and market sector of projected Dual-gate Phototransistors sales for 2026 through 2032. With Dual-gate Phototransistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Dual-gate Phototransistors industry.

This Insight Report provides a comprehensive analysis of the global Dual-gate Phototransistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Dual-gate Phototransistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Dual-gate Phototransistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dual-gate Phototransistors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Dual-gate Phototransistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Dual-gate Phototransistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Planar Dual-gate Phototransistors

Vertical Dual-gate Phototransistors

Segmentation by Gate Control Configuration:

Symmetric Dual-gate Phototransistors

Asymmetric Dual-gate Phototransistors

Segmentation by Application:

Industrial Automation

Telecommunications

Automotive Electronics

Medical Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

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 Addressed in this Report**

What is the 10-year outlook for the global Dual-gate Phototransistors market?

What factors are driving Dual-gate Phototransistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Dual-gate Phototransistors market opportunities vary by end market size?

How does Dual-gate Phototransistors break out by Type, by Application?

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