

# Global ToF Driver IC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G60DFF9C4755EN.html>

Date: June 2026

Pages: 96

Price: US\$ 3,480.00 (Single User License)

ID: G60DFF9C4755EN

## Abstracts

According to our (Global Info Research) latest study, the global ToF Driver IC market size was valued at US\$ 782 million in 2025 and is forecast to a readjusted size of US\$ 2691 million by 2032 with a CAGR of 19.2% during review period.

A ToF Driver IC is a critical analog and mixed-signal chip used in time-of-flight ranging and depth-sensing systems. Its core role is to provide high-speed switching, high-current pulsing, stable modulation, and power control for emitters such as VCSELs, laser diodes, or LEDs under tight constraints on power consumption, thermal design, size, and safety, thereby converting electrical signals into optical signals suitable for distance measurement and 3D sensing. These products are typically designed around indirect ToF, enhanced ToF, or broader ToF ranging chains, and commonly integrate capabilities such as LVDS or SPI control interfaces, APC, temperature monitoring, fail-safe protection, ambient light rejection, and system-level optimization with external emitters, detectors, and host controllers. Typical customers include smartphone and consumer-electronics module makers, automotive in-cabin sensing and driver-monitoring solution providers, and industrial automation and robotics equipment vendors, with further extensions into short-range LiDAR, access control, parking, smart spaces, and human presence detection. In terms of delivery form, the market includes both pure VCSEL laser driver ICs and ToF processing chips that integrate part of the signal-processing and emitter-driving functions. Commercially, the dominant model is standard chip sales, supplemented by evaluation boards, driver software, reference designs, and system support to accelerate design-in.

The value of the ToF Driver IC industry is evolving from that of a conventional emitter-side companion component into a core analog and mixed-signal node that determines ranging accuracy, power behavior, thermal stability, and system manufacturability.

Official product pages show that leading vendors no longer emphasize only drive current. Instead, they are expanding product capability boundaries to include LVDS reception, SPI configuration, APC, temperature monitoring, fail-safe protection, environmental robustness, and evaluation-board support, indicating that competition is shifting from isolated performance metrics to system-level capability. For module makers and end-device brands, what truly matters is not simply turning on a VCSEL, but maintaining stable and repeatable optical output and ranging results across different emitters, temperatures, target distances, and system power budgets. As a result, the future pricing power of ToF Driver IC vendors will increasingly come from calibratability, protection capability, certifiability, and the ability to shorten design-in cycles, rather than from a single leading parameter alone.

On the demand side, consumer electronics remains the clearest mass-production base today, but automotive and industrial applications are pulling the industry toward higher specifications and a longer growth runway. ETEK and Awinic product descriptions indicate that smartphone cameras, AR/VR depth sensing, proximity detection, and 3D imaging remain mainstream deployment scenarios, meaning the sector should continue to benefit in the near term from mobile-device and lightweight spatial-sensing demand. At the same time, Infineon directly targets in-cabin sensing, driver monitoring, occupant classification, parking assistance, and other LiDAR applications, while backing the product with AEC-Q100 Grade 2 qualification, showing that the automotive market is pushing ToF Driver ICs from consumer-grade components toward platformized, automotive-qualified, long-lifecycle supply systems. Renesas also covers industrial automation, access control, level monitoring, and human presence detection, indicating that industrial and smart-space applications are adding a second demand curve and giving the industry the potential to move from a single consumer cycle to multi-industry resonance.

From a competitive and regional perspective, this remains a typical high-barrier, niche semiconductor market with a limited number of core players but clear technical differentiation. Verified companies span Germany, the United States, Japan, South Korea, and China. Some vendors follow a highly integrated, small-package route for smartphones and general 3D sensing, while others focus on high peak current, high-speed modulation, and automotive-grade reliability for automotive and high-performance eToF use cases, and still others combine signal processing with emitter driving to capture system-cost and integration advantages. EPC, with 15A peak current and nanosecond-class pulse capability, Infineon, with 10A, 130MHz, and automotive qualification, and Awinic and ETEK, with WLCSP miniaturization and APC-related capabilities, each represent distinct competitive directions. As 3D sensing continues to

penetrate cockpits, robots, smart spaces, and short-range LiDAR, the industry is unlikely to become fully commoditized quickly. Instead, it is more likely to develop into a structurally growing market segmented by application scenario, current class, reliability grade, and level of integration.

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

Global ToF Driver IC 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 ToF Driver IC 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 ToF Driver IC 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 ToF Driver IC

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 ToF Driver IC 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 Infineon Technologies AG, Efficient Power Conversion Corporation, Wuxi ETEK Micro-Electronics Co., Ltd., Shanghai Awinic Technology Co., Ltd., Dongwoon Anatech Co., Ltd., Renesas Electronics Corporation, etc.

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

## Market Segmentation

ToF Driver IC 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

dToF Driver IC

iToF Driver IC

### Market segment by Technology Route

IToF Driver

EToF / Pulsed Laser Driver

ToF Signal Processing IC With Emitter Driver

### Market segment by Output Current Class

Up To 255 MA

Above 255 MA To 4 A

Above 4 A To 10 A

Above 10 A

#### Market segment by Application

Smartphone

Automotive

Robotics

Digital Signage

Smart Home

Sport and Games

Medical and Military

#### Major players covered

Infineon Technologies AG

Efficient Power Conversion Corporation

Wuxi ETEK Micro-Electronics Co., Ltd.

Shanghai Awinic Technology Co., Ltd.

Dongwoon Anatech Co., Ltd.

Renesas Electronics Corporation

#### 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 ToF Driver IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ToF Driver IC, with price, sales quantity, revenue, and global market share of ToF Driver IC from 2021 to 2026.

Chapter 3, the ToF Driver IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ToF Driver IC 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 ToF Driver IC 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 ToF Driver IC.

Chapter 14 and 15, to describe ToF Driver IC sales channel, distributors, customers, research findings and conclusion.

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