

Global Mobile Phone ToF Driver IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile Phone ToF Driver IC market size is expected to reach \$ 239 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

Mobile phone ToF Driver ICs are core control chips designed for three dimensional sensing systems in smartphones primarily responsible for driving VCSEL or infrared light sources and enabling high precision pulse modulation and emission synchronization to support time of flight ranging functions. These chips operate by precisely controlling current amplitude pulse width and emission frequency while working in coordination with ToF image sensors to achieve real time measurement of object distance and spatial structure. Key technical capabilities include nanosecond level pulse modulation, highly stable current output, low noise design and accurate timing synchronization with sensors ensuring measurement accuracy, power efficiency and system reliability that meet smartphone grade requirements. At the application level, these devices are widely used in facial recognition systems for high security 3D unlocking as well as in imaging systems for depth of field enhancement, autofocus optimization and augmented reality applications such as spatial mapping and gesture recognition. Major customers include smartphone OEMs, ToF module manufacturers and semiconductor companies providing integrated 3D sensing solutions. In terms of delivery form, products are available both as standalone driver ICs and as integrated system level solutions combined with sensors or algorithms and are typically commercialized through chip sales or bundled module supply. Overall, mobile phone ToF Driver ICs represent a critical control component within the 3D sensing value chain, directly influencing ranging performance, power consumption and user experience and serving as a foundational technology enabling the evolution of smart devices toward advanced spatial awareness capabilities.

Mobile phone ToF Driver ICs serve as critical control components within three dimensional sensing systems in smart devices acting as the interface between light sources and sensors and directly determining ranging accuracy power efficiency and system stability The current industry primarily adopts VCSEL based driving architectures utilizing high frequency pulse modulation and precise current control to achieve nanosecond level emission synchronization enabling time of flight ranging functions As demand for advanced 3D sensing capabilities in smartphones continues to increase ToF Driver ICs are evolving from standalone driving functions toward system level coordinated control closely integrated with sensors algorithms and image signal processors In this process high precision modulation low noise design and high integration levels have become key competitive barriers among manufacturers From a market perspective smartphones remain the dominant demand source for ToF Driver ICs with major applications including facial recognition imaging enhancement and augmented reality High end segments are largely dominated by companies from the United States Europe and Japan which possess strong expertise in analog circuit design and optoelectronic integration Meanwhile Chinese companies are leveraging supply chain advantages and cost competitiveness to penetrate mid range markets and are gradually moving toward higher end segments through system level solutions At the same time emerging applications such as AR glasses robotics vision and spatial computing are expanding the use cases for ToF technology driving additional demand for driver ICs as fundamental components Geographically the research development and production of ToF Driver ICs are concentrated in the United States Europe Japan and China where strong semiconductor design capabilities and mature industrial ecosystems exist On the demand side consumption is highly concentrated in China and the global smartphone market Looking ahead the advancement of AI vision and spatial computing technologies is expected to drive higher penetration of ToF Driver ICs across a broader range of devices Although short term growth may be constrained by slowing smartphone market expansion the industry maintains clear long term growth potential as new applications continue to emerge

This report studies the global Mobile Phone ToF Driver IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile Phone ToF Driver IC 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 Mobile Phone ToF Driver IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mobile Phone ToF Driver IC total production and demand, 2021-2032, (Million Units)

Global Mobile Phone ToF Driver IC total production value, 2021-2032, (USD Million)

Global Mobile Phone ToF Driver IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Mobile Phone ToF Driver IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Mobile Phone ToF Driver IC domestic production, consumption, key domestic manufacturers and share

Global Mobile Phone ToF Driver IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Mobile Phone ToF Driver IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Mobile Phone ToF Driver IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Mobile Phone ToF Driver IC 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 Sony, Dongwoon Anatech, Shanghai Orient-Chip Technology, Analog Devices, Texas Instruments, ams OSRAM, STMicroelectronics, Infineon Technologies, ROHM Semiconductor, Renesas Electronics Corporation, 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 Mobile Phone ToF Driver IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Mobile Phone ToF Driver IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile Phone ToF Driver IC Market, Segmentation by Type:

dToF Driver IC

iToF Driver IC

Global Mobile Phone ToF Driver IC Market, Segmentation by Emitter Type:

VCSEL Driver IC

EEL Driver IC

IR LED Driver IC

Global Mobile Phone ToF Driver IC Market, Segmentation by Integration Form:

Standalone Driver IC

Driver And Control Integrated IC

Driver Included In System Solution

Global Mobile Phone ToF Driver IC Market, Segmentation by Application:

IOS System

Android System

Other System

Companies Profiled:

Sony

Dongwoon Anatech

Shanghai Orient-Chip Technology

Analog Devices

Texas Instruments

ams OSRAM

STMicroelectronics

Infineon Technologies

ROHM Semiconductor

Renesas Electronics Corporation

Will Semiconductor (OmniVision)

Goodix Technology

SG Micro

Samsung Electronics

Key Questions Answered:

1. How big is the global Mobile Phone ToF Driver IC market?
2. What is the demand of the global Mobile Phone ToF Driver IC market?
3. What is the year over year growth of the global Mobile Phone ToF Driver IC market?
4. What is the production and production value of the global Mobile Phone ToF Driver IC market?
5. Who are the key producers in the global Mobile Phone ToF Driver IC market?
6. What are the growth factors driving the market demand?

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