

Global Type-C Fast Charging Protocol ICs Market Growth 2026-2032

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Abstracts

The global Type-C Fast Charging Protocol ICs market size is predicted to grow from US\$ 279 million in 2025 to US\$ 361 million in 2032; it is expected to grow at a CAGR of 3.7% from 2026 to 2032.

Type-C fast charging protocol ICs are dedicated integrated circuits used in devices with USB Type-C interfaces to handle fast-charging protocol identification, communication negotiation, and power control. These chips facilitate bidirectional communication with chargers and electronic devices via the CC (Configuration Channel) signal line within the USB Type-C interface; they identify the charging protocols and power capabilities supported by both parties and dynamically adjust output voltage and current according to protocol requirements to ensure safe, efficient fast charging. In 2025, global sales volume for Type-C fast charging protocol ICs reached 1.36 billion units, with a production capacity of approximately 1.8 billion units; the average selling price was \$0.21 per unit, and the average gross margin ranged from 25% to 35%.

Unlike standard Type-C charging chips, the core function of Type-C fast-charging protocol chips is not direct power conversion, but rather the management of protocol communication and power negotiation. They primarily support fast-charging protocols such as USB Power Delivery (USB PD), PPS (Programmable Power Supply), QC (Quick Charge), and UFCS (Universal Fast Charging Specification), enabling charging devices to surpass the traditional 5V/3A limit and achieve fast charging at voltage levels of 9V, 12V, 15V, 20V, or even higher.

Regarding product and technology roadmaps, Type-C fast-charging protocol chips are evolving from simple protocol recognition toward high integration, multi-protocol compatibility, high power output, and intelligent functionality. While early products

primarily met the needs for USB PD 2.0/3.0 protocol recognition and basic power negotiation, the current market mainstream has shifted to solutions supporting PD 3.0, PPS (Programmable Power Supply) dynamic voltage adjustment, and multi-protocol compatibility. With the introduction of the USB PD 3.1 standard, protocol chips are increasingly supporting high-power outputs of 140W, 180W, and even 240W. Simultaneously, the technological trajectory is moving from standalone protocol controllers to highly integrated solutions combining protocol control, power management, and power devices; integration with GaN (Gallium Nitride) power devices further enhances charging efficiency and reduces product size. Additionally, bidirectional PD protocol chips (DRP), automotive-grade protocol chips, and low-power chips represent key areas for future development.

In terms of the policy environment and industry dynamics, the global trend toward USB Type-C standardization is further driving the growth of the fast-charging protocol chip market. The European Union's push for a unified USB-C charging interface for electronic devices has accelerated the adoption of the Type-C ecosystem and encouraged global device manufacturers to transition to this unified interface standard. Meanwhile, the USB-IF continues to advance USB PD protocol upgrades—enhancing power capabilities, safety, and compatibility—thereby providing the foundational standards for the technological evolution of protocol chips. Furthermore, countries with major electronics supply chains—such as China, Japan, and South Korea—are actively promoting semiconductor self-reliance; this has encouraged domestic fast-charging protocol chip companies to increase R&D investment and boost the market penetration of domestically produced chips within the consumer electronics sector.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Type-C Fast Charging Protocol ICs 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 Type-C Fast Charging Protocol ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Type-C Fast Charging Protocol ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Type-C Fast Charging Protocol ICs 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 Type-C Fast Charging Protocol ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of Type-C Fast Charging Protocol ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Power-Receiving End Protocol Chip

Power-Supplying End Protocol Chip

Bidirectional Communication Chip

Segmentation by Fast Charging Protocols:

Single-Protocol Chip

Multi-Protocol Chip

Segmentation by Power:

<30W

30W–100W

?100W

Segmentation by Application:

Smartphones

Laptops

Power Banks

Smart Wearables

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.

Texas Instruments

Infineon Technologies

STMicroelectronics

Microchip Technology

NXP Semiconductors

ROHM Semiconductor

Renesas Electronics

Diodes Incorporated

INJOINIC

Southchip

Hynetek

iSmartWare

Silan Microelectronics

Chipsea

WCH

Key Questions Addressed in this Report

What is the 10-year outlook for the global Type-C Fast Charging Protocol ICs market?

What factors are driving Type-C Fast Charging Protocol ICs market growth, globally and by region?

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

How do Type-C Fast Charging Protocol ICs market opportunities vary by end market size?

How does Type-C Fast Charging Protocol ICs break out by Type, by Application?

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