

Global PD Bidirectional Fast Charging IC Market Growth 2025-2031

<https://marketpublishers.com/r/GFE0E4FA52FDEN.html>

Date: August 2025

Pages: 141

Price: US\$ 3,660.00 (Single User License)

ID: GFE0E4FA52FDEN

Abstracts

The global PD Bidirectional Fast Charging IC market size is predicted to grow from US\$ 1747 million in 2025 to US\$ 2747 million in 2031; it is expected to grow at a CAGR of 7.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

PD bidirectional fast charging IC is a high-performance power management integrated circuit that supports the USB Power Delivery protocol. It has bidirectional power supply capabilities for charging and discharging and is widely used in multi-function devices such as mobile power supplies, laptops, smart phones, portable displays, etc. This chip can intelligently identify the device role through the USB-C interface, flexibly switch the power input and output modes, and realize the mutual charging function between devices, such as a laptop charging a mobile phone, or a mobile power supply reversely powering a computer. PD bidirectional fast charging IC usually integrates modules such as protocol controller, MOSFET driver, overvoltage and overcurrent protection, power path management, etc. It has the advantages of high integration, small size and high safety, supports multiple voltage levels and power regulation, and meets the fast charging needs in various application scenarios.

United States market for PD Bidirectional Fast Charging IC is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for PD Bidirectional Fast Charging IC is estimated to increase from US\$

million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for PD Bidirectional Fast Charging IC is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key PD Bidirectional Fast Charging IC players cover NXP, STMicroelectronics, Texas Instruments, Cypress, Nanjing Qinheng Microelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “PD Bidirectional Fast Charging IC Industry Forecast” looks at past sales and reviews total world PD Bidirectional Fast Charging IC sales in 2024, providing a comprehensive analysis by region and market sector of projected PD Bidirectional Fast Charging IC sales for 2025 through 2031. With PD Bidirectional Fast Charging IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PD Bidirectional Fast Charging IC industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PD Bidirectional Fast Charging IC 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 PD Bidirectional Fast Charging IC.

This report presents a comprehensive overview, market shares, and growth opportunities of PD Bidirectional Fast Charging IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PD Sink Chip

PD Charging Chip

Segmentation by Application:

Smartphone

Tablet PCs

Wearable Device

Laptops

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.

NXP

STMicroelectronics

Texas Instruments

Cypress

Nanjing Qinheng Microelectronics

Shenzhen Injoinic Technology

Richtek Technology Corporation

Zhuhai iSmartWare Technology

Southchip Semiconductor Technology

MIX-DESIGN

Hangzhou Silan Microelectronics

Shenzhen Chipsea Technologies

FastSOC Microelectronics

JADARD TECHNOLOGY

Hynetek Semiconductor

Shenzhen Weipu Innovation Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global PD Bidirectional Fast Charging IC market?

What factors are driving PD Bidirectional Fast Charging IC market growth, globally and by region?

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

How do PD Bidirectional Fast Charging IC market opportunities vary by end market size?

How does PD Bidirectional Fast Charging IC break out by Type, by Application?

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