

Global QC and PD IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global QC and PD IC market size is expected to reach \$ 2984 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

Fast charging protocol ICs are dedicated integrated circuits used in USB-C or other fast-charging interfaces to detect connected devices, perform protocol handshaking, negotiate voltage and current, manage Source/Sink/DRP port roles, and support protocols such as USB PD, PPS, PD 3.1 EPR, QC, FCP, SCP, AFC, UFCS and BC1.2. These chips are widely used in fast chargers, automotive chargers, power banks, laptops, monitors, docking stations, power strips, USB-C cables, portable power stations and consumer electronic devices, serving as the key control element for compatibility, safety and dynamic power negotiation.

Fast charging protocol ICs' core value lies in device identification, protocol handshaking, power negotiation, port-role management and cable capability recognition, enabling chargers, power banks, automotive chargers, devices and USB-C cables to charge safely and compatibly across brands and power classes. The market scope should include USB PD Source, Sink and DRP controllers, multi-protocol fast-charge controllers, E-Marker ICs and integrated protocol-plus-power control ICs, while excluding ordinary AC-DC/DC-DC controllers, GaN power devices, wireless charging ICs and finished charger products.

From the supply perspective, the global market is served by international analog and interface IC vendors, China-based fast-charging IC vendors and Taiwan-based USB Type-C controller companies. Infineon, TI, ST, onsemi, Diodes and MPS have advantages in USB-C PD control, automotive applications, industrial systems and PC/interface ecosystems. Southchip, Injoinic, Hynetek, Chipsea, Silergy, Legendary

and WCH are growing rapidly in multi-protocol compatibility, consumer fast charging, power banks, automotive chargers, E-Marker ICs and domestic substitution. Weltrend, Richtek and Leadtrend have strong product foundations in adapters, PC peripherals, fast-charging power supplies and Type-C controllers. Key competitive factors include protocol compatibility, USB-IF/QC/UFCS certification, firmware update capability, protection reliability, low BOM cost and high-power EPR support.

Demand is led by wall chargers, travel adapters, power banks, automotive chargers and multi-port desktop chargers, while incremental growth is coming from PD 3.1/EPR high-power charging, USB-C port unification, USB-C power input for laptops and monitors, automotive USB-C adoption, portable power stations, E-Marker cable upgrades and regional protocol ecosystems such as UFCS. Future market growth is expected to be driven by 140W?240W charging, dynamic power sharing in multi-port systems, automotive-grade USB-C, China-based protocol IC substitution, wider E-Marker adoption and increasing use of DRP controllers in end devices.

This report studies the global QC and PD IC production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global QC and PD IC total production and demand, 2021-2032, (Units)

Global QC and PD IC total production value, 2021-2032, (USD Million)

Global QC and PD IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global QC and PD IC consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: QC and PD IC domestic production, consumption, key domestic manufacturers and share

Global QC and PD IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global QC and PD IC production by Power Class, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global QC and PD IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global QC and PD 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 Infineon Technologies AG, Texas Instruments Inc., STMicroelectronics, onsemi, Diodes Incorporated, Monolithic Power Systems, Inc., Southchip Semiconductor Technology Co., Ltd., Shenzhen Injoinic Technology Co., Ltd., Hynetek Semiconductor, Chipsea Technologies, 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 QC and PD IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Power Class, 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 QC and PD IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global QC and PD IC Market, Segmentation by Power Class:

27W Low-power Fast Charge

28-65W Mainstream PD

66-100W High-power SPR

101-140W EPR Entry

141-240W EPR High-end

Global QC and PD IC Market, Segmentation by Integration Level:

Protocol-only Controller

Protocol + Protection / Load Switch

Protocol + Feedback Control

Protocol + Buck / Buck-Boost

Global QC and PD IC Market, Segmentation by Protocol Capability:

USB PD / PPS Standard Controllers

USB PD + QC Controllers

USB PD + China Proprietary Protocol Controllers

USB PD 3.1 / EPR Controllers

Legacy / Proprietary Fast-charge Controllers

E-Marker Protocol ICs

Global QC and PD IC Market, Segmentation by Application:

Consumer Charger and Accessory Industry

Mobile and PC OEMs

Automotive Electronics

Display / Hub / Docking Industry

Industrial / IoT / Embedded Devices

ODM / EMS Charger Manufacturing

Companies Profiled:

Infineon Technologies AG

Texas Instruments Inc.

STMicroelectronics

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Diodes Incorporated

Monolithic Power Systems, Inc.

Southchip Semiconductor Technology Co., Ltd.

Shenzhen Injoinic Technology Co., Ltd.

Hynetek Semiconductor

Chipsea Technologies

Weltrend Semiconductor, Inc.

Richtek Technology Corporation

Leadtrend Technology Corporation

Silergy Corp.

Shenzhen Legendary Technology Co., Ltd.

Nanjing Qinheng Microelectronics Co., Ltd.

Key Questions Answered:

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

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