

Global Switched-Capacitor Charger Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD65D22A9FBAEN.html>

Date: August 2026

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: GD65D22A9FBAEN

Abstracts

The global Switched-Capacitor Charger market size is expected to reach \$ 767 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of Switched-Capacitor Chargers reached approximately 390 million units, with an average market price of about USD 0.97 unit, an annual production capacity of roughly 420 million units, and an industry-average gross margin of approximately 40%.

Switched-Capacitor Chargers are high-efficiency battery charging integrated circuits that use flying capacitors, power switch arrays, and fixed or configurable conversion ratios to transfer power from an input source to lithium-ion or lithium-polymer batteries. These devices are commonly designed for high-power direct charging, parallel charging, and charge-pump fast-charging architectures in portable electronics. Typical operating modes include 2:1, 3:1, 4:1, and 1:1 bypass configurations, allowing the system to reduce cable current, improve conversion efficiency, manage thermal rise, and deliver high charging current to the battery. A modern switched-capacitor charger IC usually integrates digital control, I2C communication, ADC monitoring, over-voltage and over-current protection, thermal regulation, reverse-blocking functions, and external protection FET control. This research focuses on switched-capacitor battery charging ICs used in smartphones, tablets, power banks, wireless charging receivers, mobile IoT devices, and other high-power portable electronics, where compactness, charging efficiency, thermal performance, and compatibility with USB PD PPS, UFCS, proprietary fast-charging protocols, and wireless fast-charging systems are key design requirements.

This report studies the global Switched-Capacitor Charger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Switched-Capacitor Charger 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 Switched-Capacitor Charger that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Switched-Capacitor Charger total production and demand, 2021-2032, (Million Units)

Global Switched-Capacitor Charger total production value, 2021-2032, (USD Million)

Global Switched-Capacitor Charger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Switched-Capacitor Charger consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Switched-Capacitor Charger domestic production, consumption, key domestic manufacturers and share

Global Switched-Capacitor Charger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Switched-Capacitor Charger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Switched-Capacitor Charger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Switched-Capacitor Charger 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 Southchip Semiconductor Technology (Shanghai) Co., Ltd., Texas Instruments Incorporated, Richtek Technology Corporation, NXP Semiconductors N.V., SG Micro Corp, Analog Devices, Inc., Halo Microelectronics Co., Ltd., Monolithic Power Systems, Inc., NuVolta Technologies, ConvenientPower Systems, 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 Switched-Capacitor Charger 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 Switched-Capacitor Charger Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Switched-Capacitor Charger Market, Segmentation by Type:

2:1 Switched-Capacitor Charger

3:1 Switched-Capacitor Charger

4:1 Switched-Capacitor Charger

Global Switched-Capacitor Charger Market, Segmentation by Battery:

1S Battery

2S Battery

Global Switched-Capacitor Charger Market, Segmentation by Application:

Smartphones

Tablets

Power Banks

Others

Companies Profiled:

Southchip Semiconductor Technology (Shanghai) Co., Ltd.

Texas Instruments Incorporated

Richtek Technology Corporation

NXP Semiconductors N.V.

SG Micro Corp

Analog Devices, Inc.

Halo Microelectronics Co., Ltd.

Monolithic Power Systems, Inc.

NuVolta Technologies

ConvenientPower Systems

Wuxi ETEK Micro-Electronics Co., Ltd.

Awinic Technology Co., Ltd.

Key Questions Answered:

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

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