

Global Secondary-Side Synchronous Rectifier Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Secondary-Side Synchronous Rectifier Controller market size is expected to reach \$ 528 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Secondary-Side Synchronous Rectifier Controllers (SSRCs) are specialized control chips used in the secondary-side rectification stage of isolated switching power supplies. They achieve synchronous rectification by detecting the polarity of the transformer's secondary voltage or current and driving an external MOSFET. This replaces Schottky diodes, reducing conduction and reverse recovery losses, thus significantly improving efficiency and reducing temperature rise. They are commonly found in flyback, forward, and LLC topologies in adapters, chargers, communication power supplies, server power supplies, industrial power supplies, medical power supplies, and automotive isolated power supplies. In 2025, global sales of secondary-side SSRC controllers were approximately 1.48 billion units, with an average unit price of approximately US\$0.23 and a capacity utilization rate of approximately 82%. The upstream mainly consists of wafer foundries and packaging and testing companies, commercial and automotive-grade analog process platform suppliers, lead frame and packaging material suppliers, and testing and reliability verification service providers. The downstream includes switching power supply solution companies, power module manufacturers, charger and adapter ODMs, communication and data center power supply manufacturers, industrial power supply manufacturers, medical device power supply suppliers, and automotive electronic power supply Tier 1 suppliers. The industry's gross profit margin is approximately 44%. In the product cost structure, wafer manufacturing and packaging account for approximately 38%, packaging materials and lead frames for approximately 8%, testing and reliability verification for approximately

10%, R&D and application engineering amortization for approximately 22%, channel and sales expenses for approximately 12%, and management and logistics expenses for approximately 10%. The demand list mainly includes fast charging adapters and chargers, high-efficiency TV and monitor power supplies, server and communication power modules, industrial DIN rail power supplies, medical power supplies, and automotive isolated DC power supplies. Downstream customers include leading power supply ODMs and solution companies, communication power equipment manufacturers, server power supply manufacturers, industrial power supply manufacturers, medical equipment power supply suppliers, and automotive electronic power system suppliers. Business opportunities arise from energy efficiency regulations and carbon reduction policies, the evolution of chargers and adapters towards higher power density and lower temperature rise, technological upgrades to synchronous rectification, quasi-resonant flyback, and LLC platforms, and changing consumer demands from end customers for smaller size, lower heat generation, higher reliability, and lower overall electricity costs.

This report studies the global Secondary-Side Synchronous Rectifier Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Secondary-Side Synchronous Rectifier Controller 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 Secondary-Side Synchronous Rectifier Controller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Secondary-Side Synchronous Rectifier Controller total production and demand, 2021-2032, (K Units)

Global Secondary-Side Synchronous Rectifier Controller total production value, 2021-2032, (USD Million)

Global Secondary-Side Synchronous Rectifier Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Secondary-Side Synchronous Rectifier Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Secondary-Side Synchronous Rectifier Controller domestic production, consumption, key domestic manufacturers and share

Global Secondary-Side Synchronous Rectifier Controller production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Secondary-Side Synchronous Rectifier Controller production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Secondary-Side Synchronous Rectifier Controller production by Application,

production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Secondary-Side Synchronous Rectifier Controller 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 NXP, Renesas, TI, STMicroelectronics, ADI, Nexperia, ROHM, Onsemi, MPS, Minebea Mitsumi, 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 Secondary-Side Synchronous Rectifier Controller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Secondary-Side Synchronous Rectifier Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Secondary-Side Synchronous Rectifier Controller Market, Segmentation by Type:

Maximum Switching Frequency: Below 100 kHz

Maximum Switching Frequency: 100-150 kHz

Maximum Switching Frequency: Above 150 kHz

Global Secondary-Side Synchronous Rectifier Controller Market, Segmentation by Package:

Package: SOP-8

Package: SOT23-6

Other

Global Secondary-Side Synchronous Rectifier Controller Market, Segmentation by VCC OVP:

VCC OVP: Below 40 V

VCC OVP: 40-60 V

VCC OVP: 60-80 V

VCC OVP: Above 80 V

Global Secondary-Side Synchronous Rectifier Controller Market, Segmentation by

Application:

Consumer Electronics

Industrial Power

Telecom

Medical

Automotives

Other

Companies Profiled:

NXP

Renesas

TI

STMicroelectronics

ADI

Nexperia

ROHM

Onsemi

MPS

Minebea Mitsumi

Kiwi Instruments

Hynetek Semiconductor

Zhuhai iSmartWare Technology

Deep-pool

Huayuan Semi

Key Questions Answered:

1. How big is the global Secondary-Side Synchronous Rectifier Controller market?
2. What is the demand of the global Secondary-Side Synchronous Rectifier Controller market?
3. What is the year over year growth of the global Secondary-Side Synchronous Rectifier Controller market?
4. What is the production and production value of the global Secondary-Side Synchronous Rectifier Controller market?
5. Who are the key producers in the global Secondary-Side Synchronous Rectifier Controller market?
6. What are the growth factors driving the market demand?

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