

# Global Surface Acoustic Wave Device Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Surface Acoustic Wave Device market size is expected to reach \$ 3803 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Surface Acoustic Wave Devices (SAW Devices) are a class of electronic components based on the piezoelectric effect, which generate and manipulate acoustic waves on the surface of a piezoelectric material to process, transmit, or detect electrical signals. These devices include a broad range of functional products, such as SAW filters for RF signal filtering, SAW resonators for oscillation control, SAW delay lines for time delay and phase shift processing, and SAW sensors for physical quantity measurement. SAW devices first emerged during the development of microelectromechanical systems (MEMS) technology. With the rapid advancement of smart terminals, wireless communications, automotive electronics, and the Internet of Things (IoT), they have become indispensable components in high-frequency signal front-end modules and sensing platforms. In modern mobile communication systems, SAW devices are widely integrated into RF front-end modules to eliminate unwanted frequency components, improve signal selectivity, and enhance stability. In the sensing field, their sensitivity to pressure, temperature, and chemical quantities has driven adoption in industrial automation and environmental monitoring. SAW technology offers simple structure, cost efficiency, miniaturization, and high reliability. It is widely deployed across high-frequency wireless communications (including 4G/5G), consumer electronics, automotive electronics, and aerospace industries, while continuous innovation extends its applications to higher frequency bands and more complex systems. This definition reflects industry practice and technology fundamentals to ensure accurate understanding of the product's value and nature.

## Market Development Opportunities & Main Driving Factors

The demand for SAW devices continues to grow, driven by the rapid evolution of global communication technologies and the intelligentization of end devices. The full deployment of 5G and exploration toward future 6G frequencies are creating strong demand for high-performance SAW filters and resonators, particularly in devices that require multi-band and multi-protocol compatibility. In consumer electronics, smartphones, tablets, and wearable devices drive the need for smaller, more integrated, and low-power components, fostering innovation and large-scale production of piezoelectric-based SAW devices. Additionally, the expansion of IoT and automotive sensing systems, including advanced driver-assistance systems (ADAS), vehicle networking, and tire pressure monitoring, increases the adoption of SAW sensors requiring high reliability and environmental adaptability. Furthermore, government policies supporting next-generation communication technologies and advanced semiconductor components—through tax incentives, R&D subsidies, and industry collaboration platforms—create a favorable environment for innovation and industrialization in the SAW device market. Collectively, these factors serve as major growth drivers for the SAW device industry.

## Market Challenges, Risks, & Restraints

Despite significant growth potential, the SAW device industry faces several challenges. Technologically, conventional SAW devices face performance limitations at higher frequency bands, such as millimeter-wave ranges, where BAW (Bulk Acoustic Wave) technology may offer advantages, posing higher requirements for material and design innovation. Additionally, fluctuations in the supply and cost of high-quality piezoelectric substrates introduce uncertainties in manufacturing costs, particularly affecting smaller manufacturers. Intellectual property is another critical risk; leading companies often hold extensive patent portfolios and enforce them through legal actions, creating barriers for new entrants and potential legal exposure. For example, major manufacturers have filed patent infringement lawsuits in multiple countries regarding TF-SAW designs, involving core device structures. Geopolitical and trade uncertainties, including export restrictions and technology control policies, may also disrupt global supply chains and impact the consistent availability of SAW devices. These technological, legal, and supply chain risks require careful consideration for stakeholders.

## Downstream Demand Trends

Downstream demand for SAW devices is highly diversified across applications. In

telecommunications and wireless communication, the deployment of 5G and future 6G networks drives increasing demand for high-performance RF filters and resonators, which are critical for multi-band and multi-standard devices. In consumer electronics, demand for miniaturized and low-power devices continues to encourage the development of compact and highly integrated SAW devices. In automotive electronics, the advancement of intelligent, connected vehicles increases the use of SAW devices in environmental sensing, ADAS, and vehicle-to-everything (V2X) communication systems. Industrial automation and environmental monitoring also benefit from SAW sensors due to their stability and passive operation, with applications in pressure, temperature, chemical detection, and industrial control. Additionally, IoT ecosystems expand the need for low-cost, reliable SAW solutions in smart homes, energy management, and smart city infrastructure. Collectively, these trends illustrate a broadening and multi-layered adoption of SAW devices across downstream markets.

## Regional Trends

Regional SAW device demand exhibits distinct characteristics. In North America, mature communication infrastructure and strong R&D investment drive growth in high-value, high-performance SAW devices and innovation in advanced RF technologies. In China and the broader Asia-Pacific region, the large-scale production of consumer electronics and high smartphone shipments make the region one of the largest SAW device demand centers globally, while local manufacturers rapidly enhance production and supply chain capabilities, supported by industrial policies and investment. In Europe, the stable automotive and industrial automation sectors create strong demand for high-reliability sensing systems and RF components, stimulating adoption of high-performance SAW devices. Other regions, such as Latin America and the Middle East & Africa, are gradually upgrading communication infrastructure, leading to moderate growth in RF component demand, although total market volume remains smaller. While regional priorities differ, they collectively drive a multi-tiered, globally diversified SAW device demand landscape.

This report studies the global Surface Acoustic Wave Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surface Acoustic Wave Device 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 Surface Acoustic Wave Device that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Surface Acoustic Wave Device total production and demand, 2021-2032, (Units)

Global Surface Acoustic Wave Device total production value, 2021-2032, (USD Million)

Global Surface Acoustic Wave Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Surface Acoustic Wave Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Surface Acoustic Wave Device domestic production, consumption, key domestic manufacturers and share

Global Surface Acoustic Wave Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Surface Acoustic Wave Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Surface Acoustic Wave Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Surface Acoustic Wave Device 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 API Technologies, EPCOS, ITF, Infineon, Kyocera, Murata, Qorvo, RF360 Holdings, Skyworks Solutions, Taiyo Yuden, 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 Surface Acoustic Wave Device 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 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 Surface Acoustic Wave Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Surface Acoustic Wave Device Market, Segmentation by Type:

SAW Filter

SAW Resonator

SAW Oscillator

SAW Delay Line

SAW Sensor

## Global Surface Acoustic Wave Device Market, Segmentation by Substrate Material:

Quartz

Lithium Niobate (LiNbO<sub>3</sub>)

Lithium Tantalate (LiTaO<sub>3</sub>)

## Global Surface Acoustic Wave Device Market, Segmentation by Performance Feature:

Temperature-Compensated SAW (TC-SAW)

High-Power SAW

High-Q SAW

Wide Band SAW

Miniaturized/Compact SAW

## Global Surface Acoustic Wave Device Market, Segmentation by Application:

Telecommunications & Wireless

Consumer Electronics

Automotive Systems

Industrial Automation

Aerospace & Defence

Medical Devices

Wearables

**Companies Profiled:**

API Technologies

EPCOS

ITF

Infineon

Kyocera

Murata

Qorvo

RF360 Holdings

Skyworks Solutions

Taiyo Yuden

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Surface Acoustic Wave Device Introduction
- 1.2 World Surface Acoustic Wave Device Supply & Forecast
  - 1.2.1 World Surface Acoustic Wave Device Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Surface Acoustic Wave Device Production (2021-2032)
  - 1.2.3 World Surface Acoustic Wave Device Pricing Trends (2021-2032)
- 1.3 World Surface Acoustic Wave Device Production by Region (Based on Production Site)
  - 1.3.1 World Surface Acoustic Wave Device Production Value by Region (2021-2032)
  - 1.3.2 World Surface Acoustic Wave Device Production by Region (2021-2032)
  - 1.3.3 World Surface Acoustic Wave Device Average Price by Region (2021-2032)
  - 1.3.4 North America Surface Acoustic Wave Device Production (2021-2032)
  - 1.3.5 Asia Surface Acoustic Wave Device Production (2021-2032)
  - 1.3.6 Europe Surface Acoustic Wave Device Production (2021-2032)
  - 1.3.7 Latin America Surface Acoustic Wave Device Production (2021-2032)
  - 1.3.8 Middle East & Africa Surface Acoustic Wave Device Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Surface Acoustic Wave Device Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Surface Acoustic Wave Device Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Surface Acoustic Wave Device Demand (2021-2032)
- 2.2 World Surface Acoustic Wave Device Consumption by Region
  - 2.2.1 World Surface Acoustic Wave Device Consumption by Region (2021-2026)
  - 2.2.2 World Surface Acoustic Wave Device Consumption Forecast by Region (2027-2032)
- 2.3 United States Surface Acoustic Wave Device Consumption (2021-2032)
- 2.4 China Surface Acoustic Wave Device Consumption (2021-2032)
- 2.5 Europe Surface Acoustic Wave Device Consumption (2021-2032)
- 2.6 Japan Surface Acoustic Wave Device Consumption (2021-2032)
- 2.7 South Korea Surface Acoustic Wave Device Consumption (2021-2032)
- 2.8 ASEAN Surface Acoustic Wave Device Consumption (2021-2032)
- 2.9 India Surface Acoustic Wave Device Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Surface Acoustic Wave Device Production Value by Manufacturer (2021-2026)
- 3.2 World Surface Acoustic Wave Device Production by Manufacturer (2021-2026)
- 3.3 World Surface Acoustic Wave Device Average Price by Manufacturer (2021-2026)
- 3.4 Surface Acoustic Wave Device Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Surface Acoustic Wave Device Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Surface Acoustic Wave Device in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Surface Acoustic Wave Device in 2025
- 3.6 Surface Acoustic Wave Device Market: Overall Company Footprint Analysis
  - 3.6.1 Surface Acoustic Wave Device Market: Region Footprint
  - 3.6.2 Surface Acoustic Wave Device Market: Company Product Type Footprint
  - 3.6.3 Surface Acoustic Wave Device Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Surface Acoustic Wave Device Production Value Comparison
  - 4.1.1 United States VS China: Surface Acoustic Wave Device Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Surface Acoustic Wave Device Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Surface Acoustic Wave Device Production Comparison
  - 4.2.1 United States VS China: Surface Acoustic Wave Device Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Surface Acoustic Wave Device Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Surface Acoustic Wave Device Consumption Comparison
  - 4.3.1 United States VS China: Surface Acoustic Wave Device Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Surface Acoustic Wave Device Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Surface Acoustic Wave Device Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Surface Acoustic Wave Device Production Value (2021-2026)

4.4.3 United States Based Manufacturers Surface Acoustic Wave Device Production (2021-2026)

4.5 China Based Surface Acoustic Wave Device Manufacturers and Market Share

4.5.1 China Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Surface Acoustic Wave Device Production Value (2021-2026)

4.5.3 China Based Manufacturers Surface Acoustic Wave Device Production (2021-2026)

4.6 Rest of World Based Surface Acoustic Wave Device Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Surface Acoustic Wave Device Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Surface Acoustic Wave Device Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Surface Acoustic Wave Device Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 SAW Filter

5.2.2 SAW Resonator

5.2.3 SAW Oscillator

5.2.4 SAW Delay Line

5.2.5 SAW Sensor

5.3 Market Segment by Type

5.3.1 World Surface Acoustic Wave Device Production by Type (2021-2032)

5.3.2 World Surface Acoustic Wave Device Production Value by Type (2021-2032)

5.3.3 World Surface Acoustic Wave Device Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SUBSTRATE MATERIAL**

6.1 World Surface Acoustic Wave Device Market Size Overview by Substrate Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Substrate Material

6.2.1 Quartz

6.2.2 Lithium Niobate (LiNbO?)

6.2.3 Lithium Tantalate (LiTaO?)

6.3 Market Segment by Substrate Material

6.3.1 World Surface Acoustic Wave Device Production by Substrate Material (2021-2032)

6.3.2 World Surface Acoustic Wave Device Production Value by Substrate Material (2021-2032)

6.3.3 World Surface Acoustic Wave Device Average Price by Substrate Material (2021-2032)

## **7 MARKET ANALYSIS BY PERFORMANCE FEATURE**

7.1 World Surface Acoustic Wave Device Market Size Overview by Performance Feature: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Performance Feature

7.2.1 Temperature?Compensated SAW (TC?SAW)

7.2.2 High?Power SAW

7.2.3 High?Q SAW

7.2.4 Wide Band SAW

7.2.5 Miniaturized/Compact SAW

7.3 Market Segment by Performance Feature

7.3.1 World Surface Acoustic Wave Device Production by Performance Feature (2021-2032)

7.3.2 World Surface Acoustic Wave Device Production Value by Performance Feature (2021-2032)

7.3.3 World Surface Acoustic Wave Device Average Price by Performance Feature (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Surface Acoustic Wave Device Market Size Overview by Application: 2021 VS 2025 VS 2032

## 8.2 Segment Introduction by Application

- 8.2.1 Telecommunications & Wireless
- 8.2.2 Consumer Electronics
- 8.2.3 Automotive Systems
- 8.2.4 Industrial Automation
- 8.2.5 Aerospace & Defence
- 8.2.6 Medical Devices
- 8.2.7 Wearables

## 8.3 Market Segment by Application

- 8.3.1 World Surface Acoustic Wave Device Production by Application (2021-2032)
- 8.3.2 World Surface Acoustic Wave Device Production Value by Application (2021-2032)
- 8.3.3 World Surface Acoustic Wave Device Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 API Technologies

- 9.1.1 API Technologies Details
- 9.1.2 API Technologies Major Business
- 9.1.3 API Technologies Surface Acoustic Wave Device Product and Services
- 9.1.4 API Technologies Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 API Technologies Recent Developments/Updates
- 9.1.6 API Technologies Competitive Strengths & Weaknesses

### 9.2 EPCOS

- 9.2.1 EPCOS Details
- 9.2.2 EPCOS Major Business
- 9.2.3 EPCOS Surface Acoustic Wave Device Product and Services
- 9.2.4 EPCOS Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 EPCOS Recent Developments/Updates
- 9.2.6 EPCOS Competitive Strengths & Weaknesses

### 9.3 ITF

- 9.3.1 ITF Details
- 9.3.2 ITF Major Business
- 9.3.3 ITF Surface Acoustic Wave Device Product and Services
- 9.3.4 ITF Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 ITF Recent Developments/Updates

### 9.3.6 ITF Competitive Strengths & Weaknesses

## 9.4 Infineon

### 9.4.1 Infineon Details

### 9.4.2 Infineon Major Business

### 9.4.3 Infineon Surface Acoustic Wave Device Product and Services

### 9.4.4 Infineon Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.4.5 Infineon Recent Developments/Updates

### 9.4.6 Infineon Competitive Strengths & Weaknesses

## 9.5 Kyocera

### 9.5.1 Kyocera Details

### 9.5.2 Kyocera Major Business

### 9.5.3 Kyocera Surface Acoustic Wave Device Product and Services

### 9.5.4 Kyocera Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 Kyocera Recent Developments/Updates

### 9.5.6 Kyocera Competitive Strengths & Weaknesses

## 9.6 Murata

### 9.6.1 Murata Details

### 9.6.2 Murata Major Business

### 9.6.3 Murata Surface Acoustic Wave Device Product and Services

### 9.6.4 Murata Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Murata Recent Developments/Updates

### 9.6.6 Murata Competitive Strengths & Weaknesses

## 9.7 Qorvo

### 9.7.1 Qorvo Details

### 9.7.2 Qorvo Major Business

### 9.7.3 Qorvo Surface Acoustic Wave Device Product and Services

### 9.7.4 Qorvo Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 Qorvo Recent Developments/Updates

### 9.7.6 Qorvo Competitive Strengths & Weaknesses

## 9.8 RF360 Holdings

### 9.8.1 RF360 Holdings Details

### 9.8.2 RF360 Holdings Major Business

### 9.8.3 RF360 Holdings Surface Acoustic Wave Device Product and Services

### 9.8.4 RF360 Holdings Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.8.5 RF360 Holdings Recent Developments/Updates
- 9.8.6 RF360 Holdings Competitive Strengths & Weaknesses
- 9.9 Skyworks Solutions
  - 9.9.1 Skyworks Solutions Details
  - 9.9.2 Skyworks Solutions Major Business
  - 9.9.3 Skyworks Solutions Surface Acoustic Wave Device Product and Services
  - 9.9.4 Skyworks Solutions Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Skyworks Solutions Recent Developments/Updates
  - 9.9.6 Skyworks Solutions Competitive Strengths & Weaknesses
- 9.10 Taiyo Yuden
  - 9.10.1 Taiyo Yuden Details
  - 9.10.2 Taiyo Yuden Major Business
  - 9.10.3 Taiyo Yuden Surface Acoustic Wave Device Product and Services
  - 9.10.4 Taiyo Yuden Surface Acoustic Wave Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Taiyo Yuden Recent Developments/Updates
  - 9.10.6 Taiyo Yuden Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Surface Acoustic Wave Device Industry Chain
- 10.2 Surface Acoustic Wave Device Upstream Analysis
  - 10.2.1 Surface Acoustic Wave Device Core Raw Materials
  - 10.2.2 Main Manufacturers of Surface Acoustic Wave Device Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Surface Acoustic Wave Device Production Mode
- 10.6 Surface Acoustic Wave Device Procurement Model
- 10.7 Surface Acoustic Wave Device Industry Sales Model and Sales Channels
  - 10.7.1 Surface Acoustic Wave Device Sales Model
  - 10.7.2 Surface Acoustic Wave Device Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source

## 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Surface Acoustic Wave Device Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Surface Acoustic Wave Device Production Value by Region (2021-2026) & (USD Million)

Table 3. World Surface Acoustic Wave Device Production Value by Region (2027-2032) & (USD Million)

Table 4. World Surface Acoustic Wave Device Production Value Market Share by Region (2021-2026)

Table 5. World Surface Acoustic Wave Device Production Value Market Share by Region (2027-2032)

Table 6. World Surface Acoustic Wave Device Production by Region (2021-2026) & (Units)

Table 7. World Surface Acoustic Wave Device Production by Region (2027-2032) & (Units)

Table 8. World Surface Acoustic Wave Device Production Market Share by Region (2021-2026)

Table 9. World Surface Acoustic Wave Device Production Market Share by Region (2027-2032)

Table 10. World Surface Acoustic Wave Device Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Surface Acoustic Wave Device Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Surface Acoustic Wave Device Major Market Trends

Table 13. World Surface Acoustic Wave Device Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Surface Acoustic Wave Device Consumption by Region (2021-2026) & (Units)

Table 15. World Surface Acoustic Wave Device Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Surface Acoustic Wave Device Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Surface Acoustic Wave Device Producers in 2025

Table 18. World Surface Acoustic Wave Device Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Surface Acoustic Wave Device Producers in 2025

Table 20. World Surface Acoustic Wave Device Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Surface Acoustic Wave Device Company Evaluation Quadrant

Table 22. World Surface Acoustic Wave Device Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Surface Acoustic Wave Device Production Site of Key Manufacturer

Table 24. Surface Acoustic Wave Device Market: Company Product Type Footprint

Table 25. Surface Acoustic Wave Device Market: Company Product Application Footprint

Table 26. Surface Acoustic Wave Device Competitive Factors

Table 27. Surface Acoustic Wave Device New Entrant and Capacity Expansion Plans

Table 28. Surface Acoustic Wave Device Mergers & Acquisitions Activity

Table 29. United States VS China Surface Acoustic Wave Device Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Surface Acoustic Wave Device Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Surface Acoustic Wave Device Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Surface Acoustic Wave Device Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Surface Acoustic Wave Device Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Surface Acoustic Wave Device Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Surface Acoustic Wave Device Production Market Share (2021-2026)

Table 37. China Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Surface Acoustic Wave Device Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Surface Acoustic Wave Device Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Surface Acoustic Wave Device Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Surface Acoustic Wave Device Production Market Share (2021-2026)

Table 42. Rest of World Based Surface Acoustic Wave Device Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Surface Acoustic Wave Device Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Surface Acoustic Wave Device Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Surface Acoustic Wave Device Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Surface Acoustic Wave Device Production Market Share (2021-2026)

Table 47. World Surface Acoustic Wave Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Surface Acoustic Wave Device Production by Type (2021-2026) & (Units)

Table 49. World Surface Acoustic Wave Device Production by Type (2027-2032) & (Units)

Table 50. World Surface Acoustic Wave Device Production Value by Type (2021-2026) & (USD Million)

Table 51. World Surface Acoustic Wave Device Production Value by Type (2027-2032) & (USD Million)

Table 52. World Surface Acoustic Wave Device Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Surface Acoustic Wave Device Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Surface Acoustic Wave Device Production Value by Substrate Material, (USD Million), 2021 & 2025 & 2032

Table 55. World Surface Acoustic Wave Device Production by Substrate Material (2021-2026) & (Units)

Table 56. World Surface Acoustic Wave Device Production by Substrate Material (2027-2032) & (Units)

Table 57. World Surface Acoustic Wave Device Production Value by Substrate Material (2021-2026) & (USD Million)

Table 58. World Surface Acoustic Wave Device Production Value by Substrate Material (2027-2032) & (USD Million)

Table 59. World Surface Acoustic Wave Device Average Price by Substrate Material (2021-2026) & (US\$/Unit)

Table 60. World Surface Acoustic Wave Device Average Price by Substrate Material

(2027-2032) & (US\$/Unit)

Table 61. World Surface Acoustic Wave Device Production Value by Performance Feature, (USD Million), 2021 & 2025 & 2032

Table 62. World Surface Acoustic Wave Device Production by Performance Feature (2021-2026) & (Units)

Table 63. World Surface Acoustic Wave Device Production by Performance Feature (2027-2032) & (Units)

Table 64. World Surface Acoustic Wave Device Production Value by Performance Feature (2021-2026) & (USD Million)

Table 65. World Surface Acoustic Wave Device Production Value by Performance Feature (2027-2032) & (USD Million)

Table 66. World Surface Acoustic Wave Device Average Price by Performance Feature (2021-2026) & (US\$/Unit)

Table 67. World Surface Acoustic Wave Device Average Price by Performance Feature (2027-2032) & (US\$/Unit)

Table 68. World Surface Acoustic Wave Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Surface Acoustic Wave Device Production by Application (2021-2026) & (Units)

Table 70. World Surface Acoustic Wave Device Production by Application (2027-2032) & (Units)

Table 71. World Surface Acoustic Wave Device Production Value by Application (2021-2026) & (USD Million)

Table 72. World Surface Acoustic Wave Device Production Value by Application (2027-2032) & (USD Million)

Table 73. World Surface Acoustic Wave Device Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Surface Acoustic Wave Device Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. API Technologies Basic Information, Manufacturing Base and Competitors

Table 76. API Technologies Major Business

Table 77. API Technologies Surface Acoustic Wave Device Product and Services

Table 78. API Technologies Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. API Technologies Recent Developments/Updates

Table 80. API Technologies Competitive Strengths & Weaknesses

Table 81. EPCOS Basic Information, Manufacturing Base and Competitors

Table 82. EPCOS Major Business

- Table 83. EPCOS Surface Acoustic Wave Device Product and Services
- Table 84. EPCOS Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. EPCOS Recent Developments/Updates
- Table 86. EPCOS Competitive Strengths & Weaknesses
- Table 87. ITF Basic Information, Manufacturing Base and Competitors
- Table 88. ITF Major Business
- Table 89. ITF Surface Acoustic Wave Device Product and Services
- Table 90. ITF Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. ITF Recent Developments/Updates
- Table 92. ITF Competitive Strengths & Weaknesses
- Table 93. Infineon Basic Information, Manufacturing Base and Competitors
- Table 94. Infineon Major Business
- Table 95. Infineon Surface Acoustic Wave Device Product and Services
- Table 96. Infineon Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Infineon Recent Developments/Updates
- Table 98. Infineon Competitive Strengths & Weaknesses
- Table 99. Kyocera Basic Information, Manufacturing Base and Competitors
- Table 100. Kyocera Major Business
- Table 101. Kyocera Surface Acoustic Wave Device Product and Services
- Table 102. Kyocera Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Kyocera Recent Developments/Updates
- Table 104. Kyocera Competitive Strengths & Weaknesses
- Table 105. Murata Basic Information, Manufacturing Base and Competitors
- Table 106. Murata Major Business
- Table 107. Murata Surface Acoustic Wave Device Product and Services
- Table 108. Murata Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Murata Recent Developments/Updates
- Table 110. Murata Competitive Strengths & Weaknesses
- Table 111. Qorvo Basic Information, Manufacturing Base and Competitors
- Table 112. Qorvo Major Business
- Table 113. Qorvo Surface Acoustic Wave Device Product and Services
- Table 114. Qorvo Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Qorvo Recent Developments/Updates

- Table 116. Qorvo Competitive Strengths & Weaknesses
- Table 117. RF360 Holdings Basic Information, Manufacturing Base and Competitors
- Table 118. RF360 Holdings Major Business
- Table 119. RF360 Holdings Surface Acoustic Wave Device Product and Services
- Table 120. RF360 Holdings Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. RF360 Holdings Recent Developments/Updates
- Table 122. RF360 Holdings Competitive Strengths & Weaknesses
- Table 123. Skyworks Solutions Basic Information, Manufacturing Base and Competitors
- Table 124. Skyworks Solutions Major Business
- Table 125. Skyworks Solutions Surface Acoustic Wave Device Product and Services
- Table 126. Skyworks Solutions Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Skyworks Solutions Recent Developments/Updates
- Table 128. Skyworks Solutions Competitive Strengths & Weaknesses
- Table 129. Taiyo Yuden Basic Information, Manufacturing Base and Competitors
- Table 130. Taiyo Yuden Major Business
- Table 131. Taiyo Yuden Surface Acoustic Wave Device Product and Services
- Table 132. Taiyo Yuden Surface Acoustic Wave Device Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Taiyo Yuden Recent Developments/Updates
- Table 134. Taiyo Yuden Competitive Strengths & Weaknesses
- Table 135. Global Key Players of Surface Acoustic Wave Device Upstream (Raw Materials)
- Table 136. Global Surface Acoustic Wave Device Typical Customers
- Table 137. Surface Acoustic Wave Device Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Surface Acoustic Wave Device Picture

Figure 2. World Surface Acoustic Wave Device Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Surface Acoustic Wave Device Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 5. World Surface Acoustic Wave Device Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Surface Acoustic Wave Device Production Value Market Share by Region (2021-2032)

Figure 7. World Surface Acoustic Wave Device Production Market Share by Region (2021-2032)

Figure 8. North America Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 9. Asia Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 10. Europe Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 11. Latin America Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 12. Middle East & Africa Surface Acoustic Wave Device Production (2021-2032) & (Units)

Figure 13. Surface Acoustic Wave Device Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 16. World Surface Acoustic Wave Device Consumption Market Share by Region (2021-2032)

Figure 17. United States Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 18. China Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 19. Europe Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 20. Japan Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 21. South Korea Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 22. ASEAN Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 23. India Surface Acoustic Wave Device Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Surface Acoustic Wave Device by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Surface Acoustic Wave Device Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Surface Acoustic Wave Device Markets in 2025

Figure 27. United States VS China: Surface Acoustic Wave Device Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Surface Acoustic Wave Device Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Surface Acoustic Wave Device Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Surface Acoustic Wave Device Production Market Share 2025

Figure 31. China Based Manufacturers Surface Acoustic Wave Device Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Surface Acoustic Wave Device Production Market Share 2025

Figure 33. World Surface Acoustic Wave Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Surface Acoustic Wave Device Production Value Market Share by Type in 2025

Figure 35. SAW Filter

Figure 36. SAW Resonator

Figure 37. SAW Oscillator

Figure 38. SAW Delay Line

Figure 39. SAW Sensor

Figure 40. World Surface Acoustic Wave Device Production Market Share by Type (2021-2032)

Figure 41. World Surface Acoustic Wave Device Production Value Market Share by Type (2021-2032)

Figure 42. World Surface Acoustic Wave Device Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Surface Acoustic Wave Device Production Value by Substrate Material, (USD Million), 2021 & 2025 & 2032

Figure 44. World Surface Acoustic Wave Device Production Value Market Share by Substrate Material in 2025

Figure 45. Quartz

Figure 46. Lithium Niobate (LiNbO<sub>3</sub>)

Figure 47. Lithium Tantalate (LiTaO<sub>3</sub>)

Figure 48. World Surface Acoustic Wave Device Production Market Share by Substrate

Material (2021-2032)

Figure 49. World Surface Acoustic Wave Device Production Value Market Share by Substrate Material (2021-2032)

Figure 50. World Surface Acoustic Wave Device Average Price by Substrate Material (2021-2032) & (US\$/Unit)

Figure 51. World Surface Acoustic Wave Device Production Value by Performance Feature, (USD Million), 2021 & 2025 & 2032

Figure 52. World Surface Acoustic Wave Device Production Value Market Share by Performance Feature in 2025

Figure 53. Temperature-Compensated SAW (TC-SAW)

Figure 54. High-Power SAW

Figure 55. High-Q SAW

Figure 56. Wide Band SAW

Figure 57. Miniaturized/Compact SAW

Figure 58. World Surface Acoustic Wave Device Production Market Share by Performance Feature (2021-2032)

Figure 59. World Surface Acoustic Wave Device Production Value Market Share by Performance Feature (2021-2032)

Figure 60. World Surface Acoustic Wave Device Average Price by Performance Feature (2021-2032) & (US\$/Unit)

Figure 61. World Surface Acoustic Wave Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Surface Acoustic Wave Device Production Value Market Share by Application in 2025

Figure 63. Telecommunications & Wireless

Figure 64. Consumer Electronics

Figure 65. Automotive Systems

Figure 66. Industrial Automation

Figure 67. Aerospace & Defence

Figure 68. Medical Devices

Figure 69. Wearables

Figure 70. World Surface Acoustic Wave Device Production Market Share by Application (2021-2032)

Figure 71. World Surface Acoustic Wave Device Production Value Market Share by Application (2021-2032)

Figure 72. World Surface Acoustic Wave Device Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Surface Acoustic Wave Device Industry Chain

Figure 74. Surface Acoustic Wave Device Procurement Model

Figure 75. Surface Acoustic Wave Device Sales Model

Figure 76. Surface Acoustic Wave Device Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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