

Global Surface Acoustic Wave (SAW) Biosensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Surface Acoustic Wave (SAW) Biosensors market size was valued at US\$ 19.6 million in 2024 and is forecast to a readjusted size of USD 41.5 million by 2031 with a CAGR of 11.4% during review period.

A surface acoustic wave (SAW) biosensor is a type of sensor that uses surface acoustic waves to detect and measure the presence or concentration of specific biological substances in a sample. SAW biosensors work by generating and detecting surface acoustic waves, which are sound waves that travel along the surface of a solid material. These waves are generated by a piezoelectric transducer, which converts electrical signals into mechanical vibrations and vice versa. The transducer sends a high-frequency electrical signal through a thin layer of piezoelectric material, which causes the material to vibrate and generate a surface acoustic wave. The global Surface Acoustic Wave (SAW) Biosensors market was valued at US\$ 19.02 million in 2023 and will reach US\$ 40.91 million by the end of 2030, growing at a CAGR of 11.66% during 2024-2030. The data for 2024 is an estimate, based on the historical data and the integrated view of industrial experts, manufacturers, distributors, and end users, etc. Top-down and bottom-up approaches are used to validate the global Surface Acoustic Wave (SAW) Biosensors market size and to estimate the market size for company, regional division, product type and application (end users). In the complete market engineering process, both top-down and bottom-up approaches along with several data triangulation methods have been extensively utilized to perform market estimation and market forecast for the overall market division and subdivision listed in this report. Extensive qualitative and further quantitative analysis has also been done from all the numbers arrived at in the complete market engineering process to list key information

throughout the report.

Global key players of Surface Acoustic Wave (SAW) Biosensors include AWSensors, SAW Components Dresden, NanoTemper Technologies, etc. The top three players hold a share about 59%. North America is the largest market, and has a share about 35%, followed by Europe and Asia-Pacific with share 34% and 26%, separately. In terms of product type, Delay-line Type is the largest segment, accounting for a share of 67%. In terms of application, University is the largest field with a share about 46 percent.

This report is a detailed and comprehensive analysis for global Surface Acoustic Wave (SAW) Biosensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Surface Acoustic Wave (SAW) Biosensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Surface Acoustic Wave (SAW) Biosensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Surface Acoustic Wave (SAW) Biosensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Surface Acoustic Wave (SAW) Biosensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Surface Acoustic Wave (SAW) Biosensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Surface Acoustic Wave (SAW) Biosensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AWSensors, SAW Components Dresden, NanoTemper Technologies, tstbio, SenSanna, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Surface Acoustic Wave (SAW) Biosensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Delay-line Type

Resonators Type

Market segment by Application

University

Research Institutions

Others

Major players covered

AWSensors

SAW Components Dresden

NanoTemper Technologies

tstbio

SenSanna

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Surface Acoustic Wave (SAW) Biosensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Surface Acoustic Wave (SAW) Biosensors, with price, sales quantity, revenue, and global market share of Surface Acoustic Wave (SAW) Biosensors from 2020 to 2025.

Chapter 3, the Surface Acoustic Wave (SAW) Biosensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Surface Acoustic Wave (SAW) Biosensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Surface Acoustic Wave (SAW) Biosensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Surface Acoustic Wave (SAW) Biosensors.

Chapter 14 and 15, to describe Surface Acoustic Wave (SAW) Biosensors sales channel, distributors, customers, research findings and conclusion.

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