

APAC Acoustic Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The APAC Acoustic Sensors Market is expected to register a CAGR of 14.62% during the forecast period.

Key Highlights

- The surface wave acoustic sensor is expected to have high growth during the forecast period due to its implementation in television transmitters and radios to generate signals for broadcasting. SAW devices are indispensable as filters in radio frequency applications and are essential components used in the terminals and base stations for satellite communication.
- The increasing focus on investments to develop infrastructure for supporting 5G technology is expected to boost the demand for RF semiconductors across the region. According to the GSMA, mobile operators in the Asia-Pacific region are expected to invest over USD 400 billion in their networks between 2020 and 2025, of which USD 331 billion will be spent on 5G deployments.
- The region is also dominating the global market for automotive MEMS sensors. The EV market is a massive opportunity in the region. EV sales remained constant in China in 2019, at around 1.2 million units sold (a 3% increase from the previous year).
- In June 2020, the China-based electric vehicle (EV) producer, BYD, secured a second round of financing for its BYD Semiconductor subsidiary to increase its production. The company is interested in developing semiconductors that can increase the efficiency of the electric motor in EVs. With such initiatives to improve the manufacturing capacities in the region, the demand for SAW devices is expected to increase.
- In the initial phase of the COVID-19, the studied market witnessed the disruption in the supply chain owing to nationwide lockdown and closure of many manufacturing capacities. However, after the 2nd Q of 2020, the market started witnessing a recovery in demand and production, the semiconductor industry trend that was also reflected in the studied market.

APAC Acoustic Sensors Market Trends

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Telecommunications Applications to Drive the Market Growth

- The telecommunications industry is the largest consumer of acoustic sensors, primarily driven by smartphones and base stations. With telecom companies setting up more and more towers to support the ever-increasing customer base, base stations are increasing.
- Moreover, people, especially in developing countries, buy smartphones due to increasing disposable incomes and low-budget smartphones.
- Moreover, most telephone devices and other similar gadgets already have microphones/speakers installed, which support acoustic-sensing applications with a relatively low deployment cost.
- The growing infrastructure development of LTE and 4G technology across the globe and rising infrastructure investment in 5G technology by developed countries is providing a massive boost to the growth of acoustic sensors (SAW Filters).
- Owing to the increasing usage of smartphones, tablets, and other electronic devices in developed and developing economies such as China, South Korea, Japan, and India, acoustic sensors are expected to witness growth during the forecast period.

Consumer Electronics holds the highest market share

- There is a significant surge in the sales of acoustic sensors and other related equipment due to the increasing smartphone sales and the increasing adoption of emerging RF technologies in consumer electronics, expanding the scope of the market studied.
- The growing production of LTE, 4G & 5G devices, especially 5G smartphones, also creates a massive growth opportunity for the SAW technology provider. RF filters are becoming standard components in these devices as they isolate radio signals from the different spectrum bands used by various smartphones to receive and transmit information. New advanced SAW filters offer a higher performance solution than competing for BAW filters in the sub-2.7 GHz frequency range, hence having higher growth opportunities with the emergence of 5G technology.
- Most renowned smartphone manufacturers adopt RF filters in their latest 5G smartphones; LG and Samsung are few among these. The advancement in SAW sensors also enables more power-efficient RF paths in 5G and 4G multimode mobile devices at a lower cost point than competing commercial solutions with similar performance metrics for original equipment manufacturers (OEMs).
- Many researchers are also exploring the scope of the SAW MEMS microphone that can also be used as a wireless passive accelerometer and pressure sensor. The global MEMS microphone market will be expected to cross USD 1.67 billion by 2024.

APAC Acoustic Sensors Industry Overview

Acoustic sensors are a relatively simple device to manufacture. Consequently, the market is highly fragmented, with many global and local manufacturers contributing to the market dynamics. The MEMS market is seeing steady growth, but companies have to face cut-throat competition leading to brutal price declines and low margins. The market is continually adding new entrants into the market.

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Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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