

Start-up ecosystem analysis for RFFE acoustic filters

Case study: Technology

Objective

The standardization of 5G has led to various developments across the telecommunications sector. While the market has been focusing on realizing 5G wireless data rates, band expansion will create a need for more filters to support multi-band and multi-standard technologies. Given these technological changes in the radio frequency front-end (RFFE) circuitry for 5G applications, our client - a semiconductor major - wanted to analyze acoustic filter technologies based on:

- The performance requirements and challenges specific to the 5G ecosystem
- Their technology readiness and the impact of innovative solutions
- New solutions under research and recent developments in the market
- Key emerging players in the acoustic filter domain

Solution and Approach

Netscribes set out to conduct a comprehensive analysis of acoustic filter technologies. This involved:

- Determining the effects of 5G concepts on RF (radio frequency) filtering technologies to provide an overview of the technical requirements
- Identifying emerging players and their focus on addressing concepts such as carrier aggregation, multiband operations, integration and miniaturization for the next generation market
- Deriving a relevancy score of these emerging players based on factors such as technology maturity, collaborations, investments, acquisitions, product development stages, and awards

Results Delivered

Our in-depth quantitative analysis equipped the client with:

- A keen understanding of the emerging solutions in the acoustic filter domain suitable for future millimeter wave (mmWave) applications
- Trends in the acoustic filter space, and the active entities involved, which highlighted opportunities for research and collaboration
- Business strategies of prominent semiconductor players
- Several key deductions based on research activities and novel solutions from patent studies, technology landscape assessments, and competitive analysis

Benefit

Netscribes' analysis helped the client apply relevant solutions and filter designs in their existing products to meet the requirements of upcoming mmWave applications. Also, our ranking of emerging players in the domain helped the client partner with the best entities to strengthen their technological competitiveness.

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