Smartphone RF Front-End Module Review

Description:
The upcoming 5G communication technology is creating a new order in the communication market. All the major RF front-end players are battling to provide devices that could be integrated in smartphones. Not all technologies suit the 5G requirement, but every player could win something. There will be opportunities for low cost competitors in the SAW filter market for low band communications like GSM, 2G or 3G, as high quality competitors shift focus to the 4G and 5G market with BAW filters. This comes along with better integration of all the front-end communication devices, now in just one module. This is therefore the perfect time to examine every player, and particularly to compare integration technologies of the original equipment manufacturers (OEMs) who make smartphones and the RF front-end module suppliers.

This comparative technology study provides technology data for RF front-end modules in smartphones. The report includes at least 16 front-end modules and several components found in five flagship smartphones: the Apple iPhone 7 Plus, Samsung Galaxy S7 Edge, Huawei P9, LG G5 and Xiaomi Mi5.

After teardowns of a large variety of smartphones, we have extracted and physically analyzed the main RF modules. We have studied their sizes and technologies, and present a large panel of OEM technical and economical choices and an overview of the market. The major players remain Broadcom/Avago and Qorvo but there are several other players, including Skyworks, Murata, Epcos/TDK, and we have analyzed their products.

The report includes a description of each component and statistical analyses for most front-end modules. It also tries to explain the OEMs’ choices and supplier tendencies. Wi-Fi and Bluetooth module analyses are not covered in this report.

Contents:
Overview / Introduction
Company Profile
Smartphone Teardowns
- Apple iPhone 7 Plus, Samsung Galaxy S7, Huawei P9, LG G5, Xiaomi Mi5 Physical Analysis
Front-End Modules
- Package Views and Dimensions
- Package Openings
- Active Die Views and Dimensions
- Power Amplifier
- SPxT Switch
- RFIC
- Passive Die View and Dimensions
- SAW Filters
- BAW Filters
- IPDs
- SMD Components
- Component Summaries
- Area and Section Number Comparison
Comparison Analysis
- Apple vs. Samsung vs. Huawei vs. LG vs. Xiaomi
- Integration Comparison
Ordering:

Order Online - http://www.researchandmarkets.com/reports/4109894/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit
http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Smartphone RF Front-End Module Review
Web Address: http://www.researchandmarkets.com/reports/4109894/
Office Code: SC2GEDN1

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>USD 5561</td>
</tr>
<tr>
<td>Enterprisewide</td>
<td></td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr  [ ] Mrs  [ ] Dr  [ ] Miss  [ ] Ms  [ ] Prof
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World