Samsung Galaxy S6 Teardown & Physical Analyses of Key Components - Reverse Technology Report

Description: The Samsung Galaxy S6 holds many IC components which are listed and reviewed in the report. A special focus has been made to highlight the component structure and understand the manufacturing process on 11 "notable" components among 4 selected topics: Advanced packaging, MEMS/Sensor, RF and Imaging.

Five MEMS/Sensors components
- Fingerprint sensor – second generation
- eCompass - new reference which has never been used in a smartphone and smallest eCompass on the market
- OIS gyroscope – smallest gyroscope on the market
- Heart-rate monitor sensor and color, ambient light and proximity sensor - rarely integrated in a smartphone

Imaging components
- Front and rear camera modules as well as flash LED

Two packaging components
- Samsung Exynos Processor – advanced Package-on-Package (PoP) structure
- Samsung power management IC – smallest pitch Wafer-Level Package (WLP) on the board

One RF component
- Wi-Fi & Bluetooth combo module - flip-chip BGA SiP integrating the industry's most powerful 5G WiFi combo chip

Contents:
1. Executive Summary
   - High Resolution Pictures
   - ICs Identification
   - ICs Identification (mfr., ref., fcn., pkg. type, size & pin count)
   - Unknown Components Decapsulation
   - Repartition by package type
   - Mfr. Design wins ranking
   - ICs footprint ranking
   - PCB Characteristics
   - PCB Cross-Section
   - PCB min. line width

2. Advanced Packaging
   - Samsung Exynos PoP
   - Package views & dimensions
   - Package Cross-Section
   - Package Opening
   - Processor & DRAM dies measurement
   - Samsung smallest pitch WLP
   - Package views & dimensions
   - Package Cross-Section

3. MEMS/Sensors
   - Fingerprint Sensor
   - Button Assembly View
   - Fingerprint sensor views & dimensions
   - Fingerprint sensor Cross-Section
- Sensor die measurement
- 3-Axis eCompass
- Package views & dimensions
- Package Cross-Section
- Die measurement
- Sensor Details
- OIS Gyroscope
- Assembly in camera module
- Package views & dimensions
- Package Opening & Die measurement
- MEMS opening & sensor details
- Cross-Section
- Pulse Oximetry & Heart-Rate Monitor Sensor
- Package views & dimensions
- Package Opening & Die measurement
- Color, ALS and Proximity Sensor
- Package views & dimensions
- Package Opening & Dies measurement

4. RF Devices
- 5G Wi-Fi & Bluetooth Combo Chip
- Package views & dimensions
- Package Opening & Dies measurement

5. Camera Modules & Flash LED
- 16Mp Rear Camera Module
- Module views & dimensions
- Module Opening & CIS die measurement
- Module Cross-Section
- 5Mp Front Camera Module
- Module views & dimensions
- Module Opening & CIS die measurement
- Module Cross-Section
- Flash LED
- Package views & dimensions
- Package Opening & LED die measurement

Ordering:
Order Online - http://www.researchandmarkets.com/reports/3450911/
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.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Samsung Galaxy S6 Teardown &amp; Physical Analyses of Key Components - Reverse Technology Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/3450911/">http://www.researchandmarkets.com/reports/3450911/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCBR812S</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Entepriwide</td>
</tr>
<tr>
<td>USD 2877</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

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