iPhone X Teardown and Key Components Identification

Teardown report by Audrey LAHRACH
Rear Side – ICs Identification - Board #1

Overview / Introduction
Teardown
Components Identification
- Electronic Board #1
- Electronic Board #2
Repartition
PCB Analysis
Feedback
About System Plus

iPhone X Main Board (Rear Side)
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# Rear Side – ICs Identification - Board #1

<table>
<thead>
<tr>
<th>#</th>
<th>Manufacturer</th>
<th>Reference</th>
<th>Device Type/Function</th>
<th>Package Type</th>
<th>Pin Nb</th>
<th>Package Size</th>
<th>Package/Die Size [mm^2]</th>
<th>Package Thickness [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

*iPhone X Main Board (Rear Side)*

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## IC MANUFACTURERS DESIGN WINS

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>IC Number</th>
<th>IC Count</th>
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</thead>
<tbody>
<tr>
<td>Texas Instruments</td>
<td>12345</td>
<td>5</td>
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</table>

### IC DESIGN WIN BY MFR. (TOTAL OF 51 ICS)
IC Package Repartition by Family

<table>
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<tr>
<th>Package Family</th>
<th>Count of ID</th>
<th>Sum of Package/Die Size [mm²]</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>WLP</td>
<td></td>
<td></td>
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<tr>
<td>Grand Total</td>
<td>51</td>
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</tbody>
</table>

IC PACKAGE REPARTITION (per number) (based on 51 ICs)

IC PACKAGE REPARTITION (per area) (based on 51 ICs)
PCB Board – Cross-Section

Overview / Introduction
Teardown
Components Identification
Repartition
PCB Analysis
- Cross section
  - Line/Space width
Feedback
About System Plus
Structure Analysis

Apple iPhone X Teardown and Identification of Key Components

Discover Apple’s key devices, advanced packaging technical choices and main suppliers

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It will help you to identify the manufacturer, packaging, including the size, type, and pitch, and function of the iPhone X’s main ICs. A physical analysis of the main substrates highlights internal structures and technologies used for the printed circuit boards (PCBs).

The report includes teardown photos, detailed package identification and descriptions and is supplied with an Excel file summarizing the iPhone X’s chipset and breakdowns by supplier, package or footprint.

AUTHOR:
Audrey Lahrach
Audrey is in charge of costing analyses for ICs, LCD and OLED displays and sensor devices. She holds a master’s degree in micro-electronics from the University of Nantes.

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