System Block Diagram

- USB (Power & Data) 5.0 V → LP5907MFX-3.3 (Single Output LDO) 3.3 V
- HDC1010 (Humidity & Temp. Sensor) 3.3 V
- MSP430F5528 (MCU)
- LDC1614 (4 Ch. Inductance to Digital Converter)
- DRV2605L (Haptic Driver for ERM and LRA)
- TSSA12301E (SPDT Analog Switch)
- DRV2667 (Piezo Haptics Driver)

Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Initial Board Release</td>
</tr>
<tr>
<td>E2</td>
<td>Replaced HDC1000 with HDC1010</td>
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</tbody>
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Version control disabled

SVN Rev: ISE4022

Number: Rev: E2

TID #: TIDA-00314

Orderable: N/A

http://www.ti.com

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Haptic Driver for ERM and LRA

Analog Switch for ERM and LRA

Piezo Haptic Driver

Humidity to Digital Converter

Four-Channel Inductance to Digital Converter
Touch on Metal Buttons with Integrated Haptics Feedback

Label Table

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
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<tr>
<td>001</td>
<td>Default Build Variant</td>
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</tbody>
</table>

**Assembly Notes**

- **ZZ1**: These assemblies are ESD sensitive; ESD precautions shall be observed.
- **ZZ2**: These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
- **ZZ3**: These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

**PCB Layout**

- **PCB Number**: IS4022
- **PCB Rev**: E2

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