Thunderboard Sense
EFR32MG12P332F1024GL125

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Revision History

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Description</th>
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<tbody>
<tr>
<td>A00</td>
<td>Initial prototype version.</td>
</tr>
<tr>
<td>B00</td>
<td>Updated EFR32 and debugger IC revisions. Replaced analog microphone with an I2S-based digital one.</td>
</tr>
<tr>
<td>B01</td>
<td>Changed microphone to Knowles SPH0645LM4H-B</td>
</tr>
<tr>
<td>C00</td>
<td>Updated microphone and SPI Flash pinout. Changed to Invensense microphone and 9-axis IMU.</td>
</tr>
<tr>
<td>C01</td>
<td>Updated hall effect sensor (Si7210) revision.</td>
</tr>
<tr>
<td>D00</td>
<td>Changed back to Invensense 6-axis IMU.</td>
</tr>
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Schematic Title
Thunderboard Sense

Schematic Title
Thunderboard Sense
2.4 GHz matching network

Mounting Holes

Low Frequency Crystal

Reset button

Power & Decoupling

EFR32 - RF, power & IO

Thunderboard Sense 2
Environmental Sensors

Pressure Sensor

Rh/Temp Sensor

UV/Ambient Light Sensor

Hall-effect Sensor

Air Quality/Gas Sensor

6-axis inertial sensor

Sensor Power Control

I2C & SPI Sensors

Thunderboard Sense 2

Schematic Title

SCHEMATIC1

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User can supply 3.6 - 5.5 V on the "5V" pin instead of using the USB cable.

3.3 V Regulator

Q1 switches from battery power to USB when USB is plugged in. Additionally, the Mini Simplicity Debug connector can supply power directly to the target voltage domain.

Note: The SPI flash is only available to the debug MCU when the USB cable is plugged in!