Overview

The LM55X is the evaluation product family for the LM961 Bluetooth® Dual Mode module. A great starting point for evaluating Bluetooth® applications. Simplifying the development process and cutting down time to the production phase.

LM assists the developer to create new applications with the LM961 module. The LM55X product family helps the developer to integrate the LM961 into their hardware designs and test for production. The LM55X evaluation board enables the developer to evaluate a Bluetooth® Dual Mode application.

The LM55X is USB powered or powered from a coin cell battery when operating the prototype in a “real world” scenario. The LM55X is Arduino compatible, providing the option of connecting the LM961 to an Arduino Board. The Arduino providing the power supply when connected.

Features

- Hardware design guidelines
- Manufacturing packs for module reference designs
- Production test and configuration tools
- Pin header socket for easy insertion and removal of LM961 module
- I2C, UART and USB interfaces for breaking out I/O to application-specific peripheral devices
- Onboard LEDs and switches
- Pins for current consumption measurements
- Onboard coin cell socket
- 3.3V supply voltage regulator included
- 78mm x 54mm x 16mm

Kit Content

- LM961 Bluetooth® module
- LM551 Evaluation Board
- Jumpers
- LIR2450 3V6 Rechargeable Coin Cell Battery

Support Document

- LM961 Datasheet: http://goo.gl/bkRkHD

Rear view of the board showing the coin cell power option.
LM55X Evaluation Product Family
For LM961 Bluetooth® Dual Mode Module

System Block Diagram

Three Power Options

Hardware Layout

Connector (CN7)
(For joining IOREF and 3v3 when FLASH is used for POWERING)

Module Current Measurement Pins

Power Header AD Header

Power Source Selector
USB / Arduino - Coin Cell Battery

Switch 2 Switch 1

Reset Module Switch

Connector (CN1)
For LM961

54mm

78mm
LM55X Evaluation Product Family
For LM961 Bluetooth® Dual Mode Module

LM961 is +3V3 but +5V required for battery charging
Datasheet Version Notes

v1.0  13 MAR 2018  Added version notes to datasheet.
LM55X Evaluation Product Family
For LM961 Bluetooth® Dual Mode Module

LM55X Packaging Options

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<th>Order Code</th>
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<tbody>
<tr>
<td>551-0560</td>
<td>LM551 EVALUATION BOARD</td>
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<td>550-0562</td>
<td>LM550 EVALUATION KIT</td>
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<tr>
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<td>1 x LM961 Plug &amp; Play 9dBm IC Ant Module</td>
</tr>
<tr>
<td></td>
<td>1 x LIR2450 Coin Cell Battery</td>
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Product User Guides, Manuals and Configuration Software can be downloaded via our website - http://www.lm-technologies.com/downloads