

Telink

User Manual for TL3238X Development Board

UM-TL3238X-E1

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Keyword

TL3238X

Brief

This document is the development board user manual of Telink multi-standard wireless SoC TL3238X. It mainly introduces the development board block diagram, development board features, various peripheral interfaces and detailed function descriptions.

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Revision History

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1.0.0	Initial release.

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1 Overview

The TL3238X development board is designed based on the TL3238X chip and is used to verify the TL323x series chips. It can be used to verify the following chips:

- TL3238X (For TL3238X development board use only; this package is not for mass production.)
- TL3238B
- TL3238C
- TL3238D

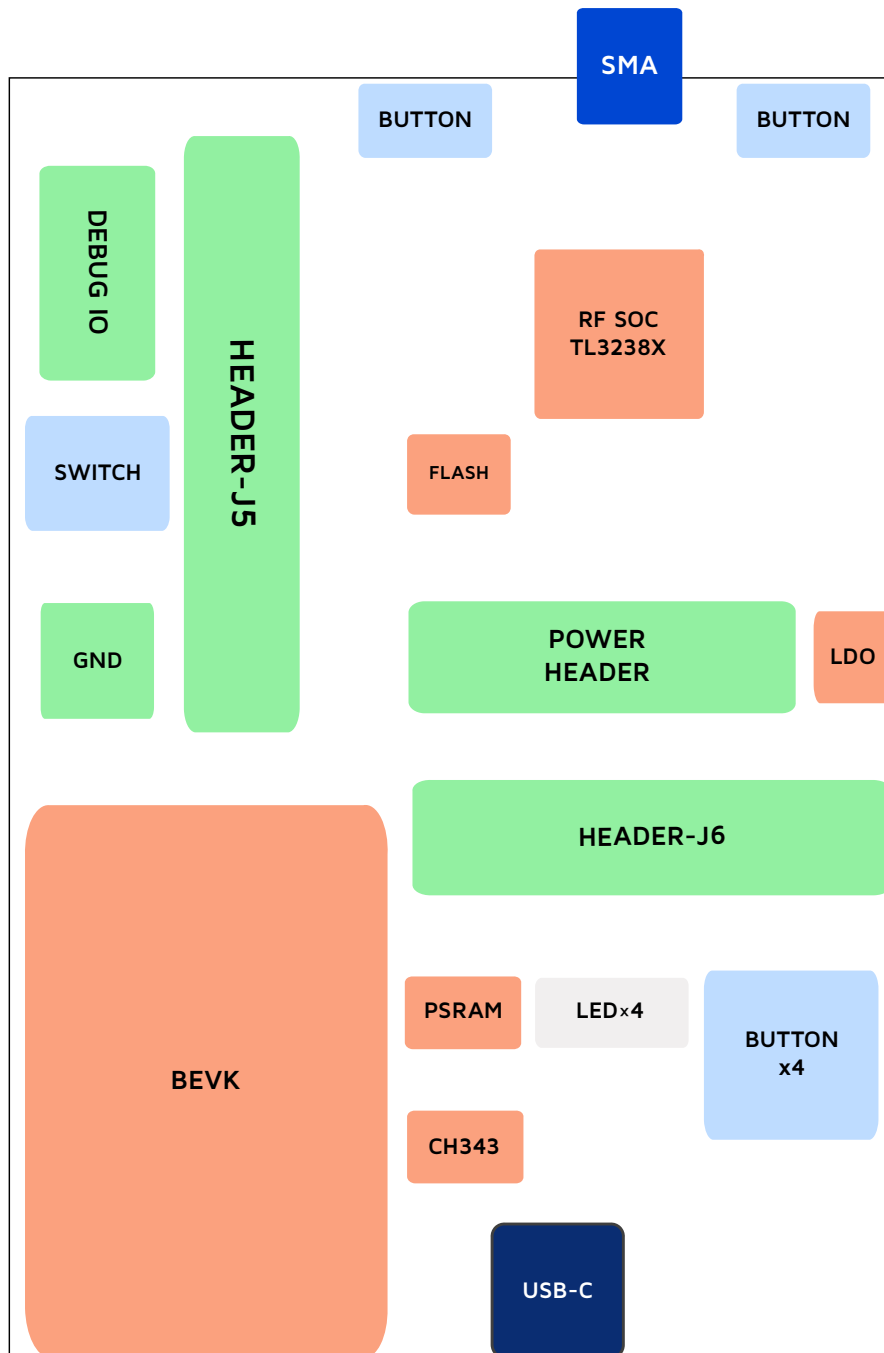
This development board supports testing of various functions, such as RF conduction test, current test, audio input and output test, combination of lights and buttons, and so on.

This document provides a detailed description of the TL3238X development board's interfaces, power supply, debugging methods, buttons, lights, jumpers, and others to make it easy for users to familiarize with this board and use it for subsequent development and debugging.

1.1 Block Diagram

The top and bottom view of the TL3238X development board are shown as below.

Figure 1-1 Top View of TL3238X Development Board



1.2 Board Features

The following table lists the features of the TL3238X development board.

Table 1-1 Board Features

No.	Name	Description	Reference section
1	Current test interface	Total current test and each branch current test via jumper combinations	2.3 Current Measurement
2	RF interface	RF conduction test via SMA connector	2.4 RF Test
3	Debug interface	Supports 2-wire SDP and 4-wire JTAG interface Supports SWS interface Supports USB interface	2.2 Debug Interface
4	GPIO interface	Supports flexible connection of all GPIOs	2.5 GPIO Interface
5	Peripheral interface	Supports peripherals such as buttons, LEDs, external flash, on-board BEVK module, etc.	2.6 Peripheral Interface - BEVK Module 2.7 Peripheral Interface - Flash

1.3 Kit List

The following table lists the main materials in this development kit.

Table 1-2 Kit List

No.	Name	Quantity
1	TL3238X development board	1
2	Whip antenna	1
3	USB 2.0 Type-A to Type-C cable	1

1.4 Board Pictures

The following picture shows the default state of the board for user verification.

Figure 1-2 Top View of the Real Board

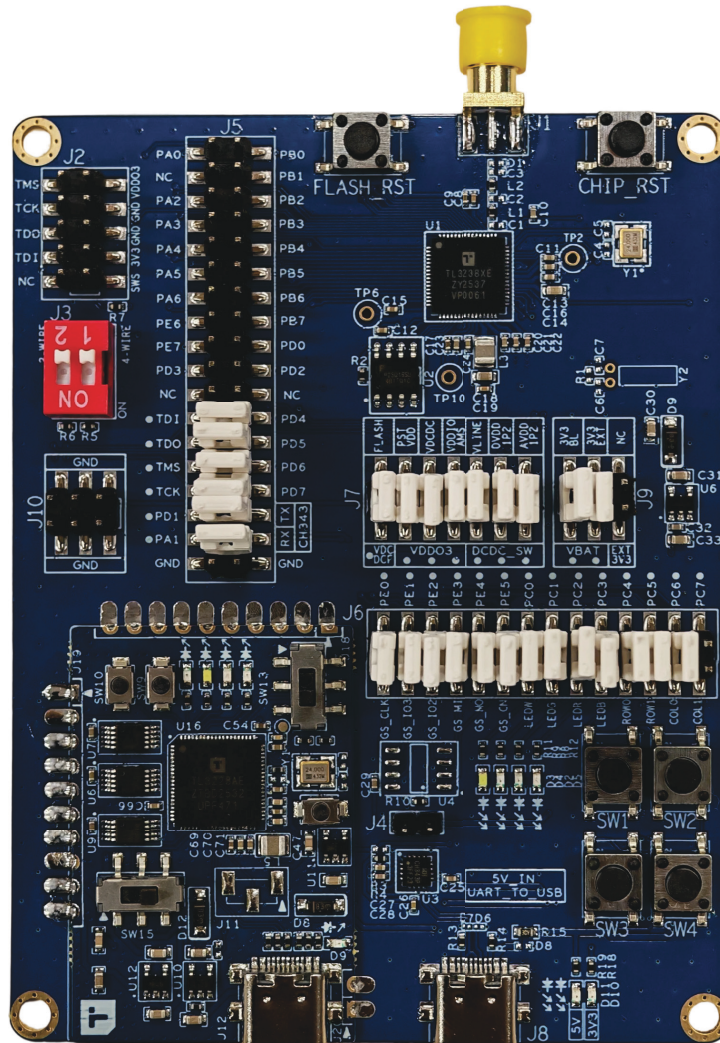


Figure 1-3 Bottom View of the Real Board

