



Telink

Telink EVK TL7218X-EVK88D

User Manual

AN-20082700-E1

**Ver.0.
1.0**

Keyword

**Feature;2.4GHz; User
manual;Bluetooth LE;**

Brief

**This is a user manual for Telink
TL7218X EVB**

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Revision History

Version	Change Description
VO.1.0	Initial release.

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1. Product Introduction

This is a user manual for Telink Audio EVB TL7218X-EVK8SD.

1.1 General description

The Telink EVK TL7218X-EVK8SD, which is based on Telink TL7218X chip.

TL7218X supports standards and industry alliance specifications, including Bluetooth 6.0, BLE mesh, etc., combining the functions and features required for high-quality wireless audio devices into one SoC.

1.2 RF features

- 1. Bluetooth**
- 2. Bluetooth LE 1 Mbps and 2 Mbps,**
- 3. Rx Sensitivity: -96 dBm @ Bluetooth LE 1 Mbps (-95.5 dBm @ Low power mode), -93 dBm @ Bluetooth LE 2 Mbps mode, -104.5 dBm**
- 4. TX output power: up to +10dBm @ GFSK modulation**
- 5. 50 Ω matched single-pin antenna input**
- 6. RSSI monitoring with +/-1 dB resolution**
- 7. High accuracy distance measurement options with I/Q data samples available for customized extensions (Channel Sounding)**
- 8. Auto acknowledgment, retransmission and flow control**
- 9. Supports full-function Bluetooth LE location features**

2. User manual

2.1 Supply power

The TL7218X-EVK8SD supports supply power via USB or other 3.3V power.

As shown in figure 2-1, the marker is the USB port. Power can be supplied when USB is plugged in.

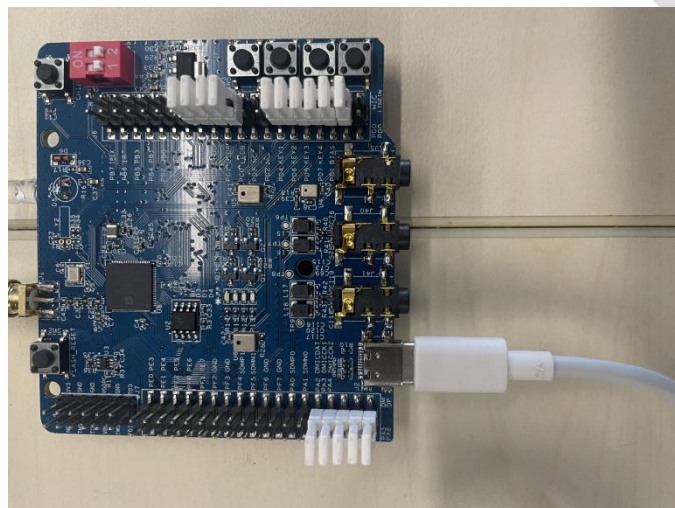


Figure 2-1 USB power supply

As shown in figure 2-2, the marker is the 3.3V and GND port. 3.3V power can be supplied through the two ports.

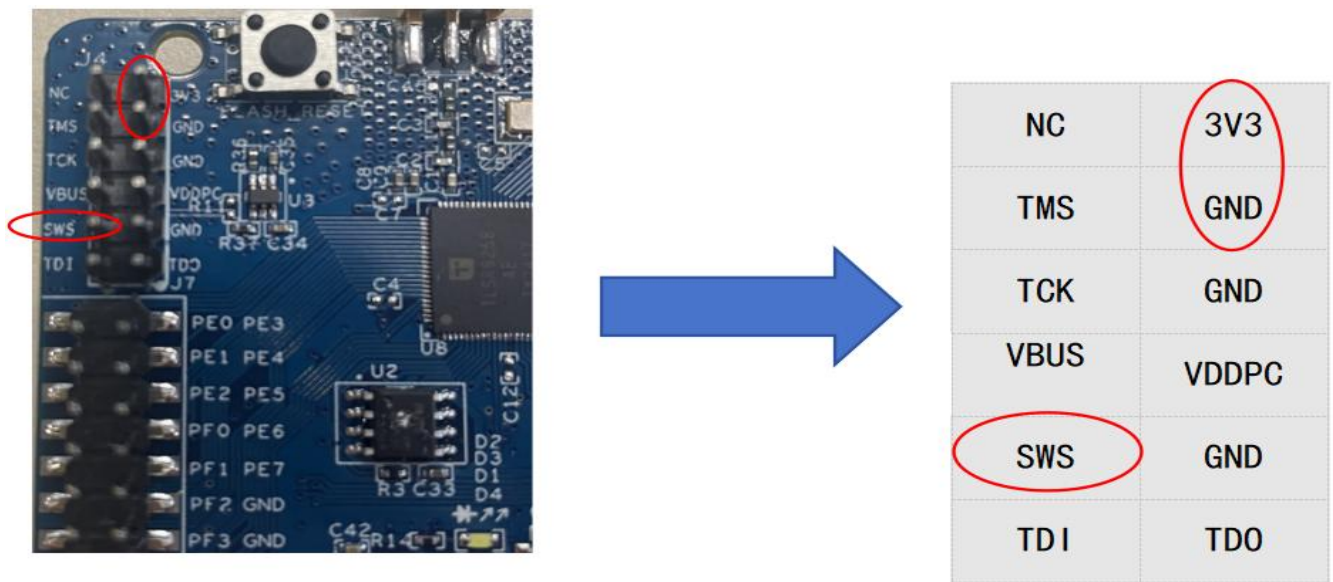


figure 2-2 3.3V power supply



2.2 Download firmware

There are also two ways to download firmware, USB burning or SWS burning. But need another burning tool Telink Burning EVK . Telink Burning EVK have USB port and 3.3V/SWS/GND port . When using USB download firmware, just plug EVK USB in Burning EVK. When using SWS download firmware, connect 3.3V/SWS/GND of EVK to 3.3V/SWM/GND of Burning EVK .

2.3 Functions of each module

As shown in figure 2-3, The functions of each module on the board have been marked.

There are LED, key, ANT and debug port on board. The LED lights can indicate what status the TL7218X-EVK88Dis in. The key allow us to control TL7218XDK88D. We can use debug port to debug TL7218XDK88D.

The TL7218X-EVK88D support audio line-in/out and mic-in functions . Realize this functions according to different software configurations.

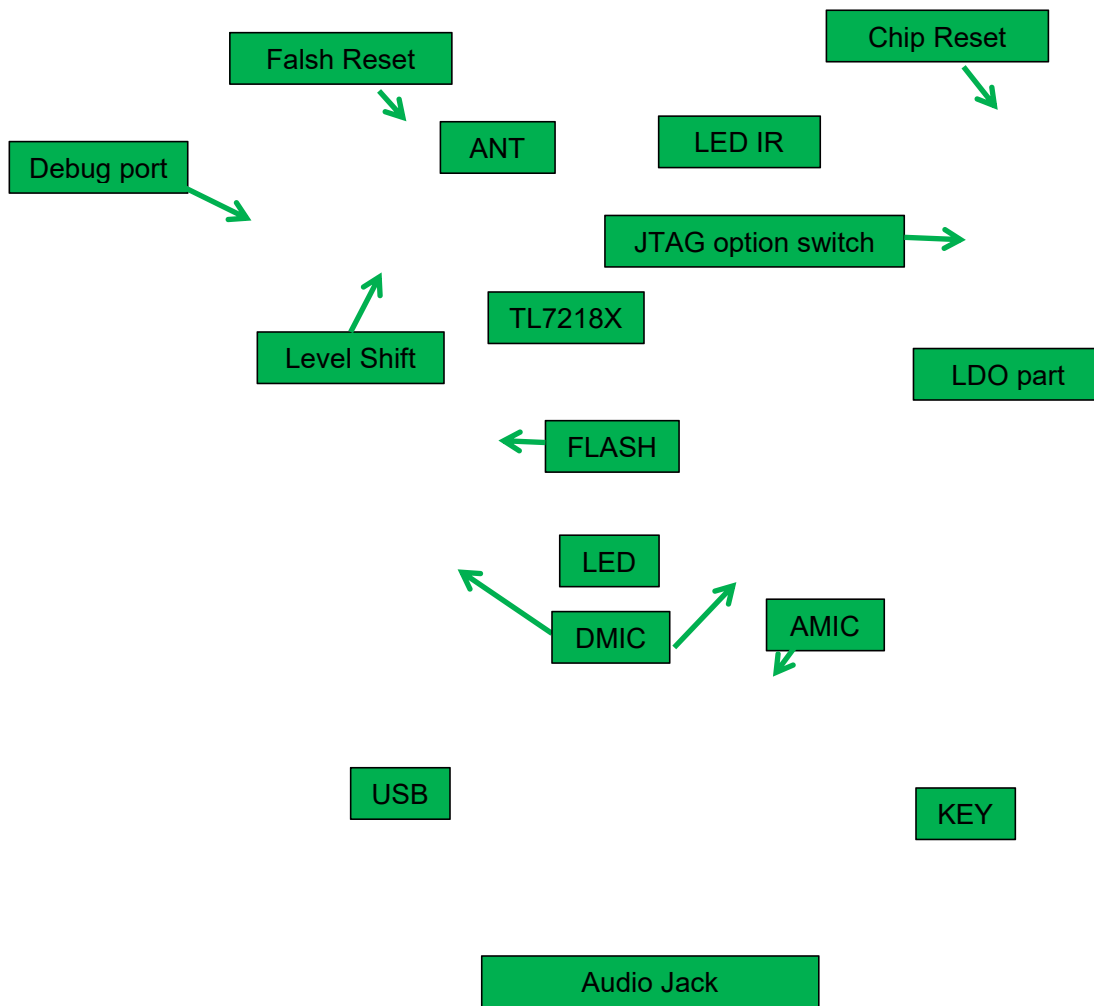


Figure 2-4 Function modules on the board

FCC Statement:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

The distance between user and products should be no less than 20cm

The EUT is In door use only