



Telink

Telink EVB TLSR9517CBAR56D

User Manual

AN-20082700-E1

Ver.0.1.0

2021/10/26

Keyword

Feature;2.4GHz; User manual

Brief

This is a user manual for Telink TLSR9517CBAR56D EVB

Published by**Telink Semiconductor****Bldg 3, 1500 Zuchongzhi Rd,
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Information

For further information on the technology, product and business term, please contact Telink Semiconductor Company (www.telink-semi.com).

For sales or technical support, please send email to the address of:

telinkcnsales@telink-semi.com

telinkcnsupport@telink-semi.com



Revision History

Version	Change Description
V0.1.0	Initial release.

Internal Only

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1. Product Introduction

This is a user manual for Telink Audio EVB TLSR9517CBAR56D.

1.1 General description

The Telink EVB TLSR9517CBAR56D, which is based on Telink TLSR9517C chip.

The TLSR9517C supports standards and industrial alliance specifications including Bluetooth 5.2, LE, The TLSR9517C combines the features and features needed for high quality wireless audio equipment into a single SoC.

1.2 Key features

1.2.1 RF Features

1. Bluetooth
2. Bluetooth Compliant, BLE 1 Mbps and 2 Mbps
3. Tx output power: up to +10 dBm @ BR/BLE mode
4. RSSI monitoring with +/-1 dB resolution

1.2.2 Chip Features

Support connection control with DSP

1.2.3 Audio Mode Features

1. Audio LE mode supports two outputs
2. Support seven-channel audio I2S output

1.3 Supply power

The TLSR9517CBAR56D only supports supply power via USB(5V).

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

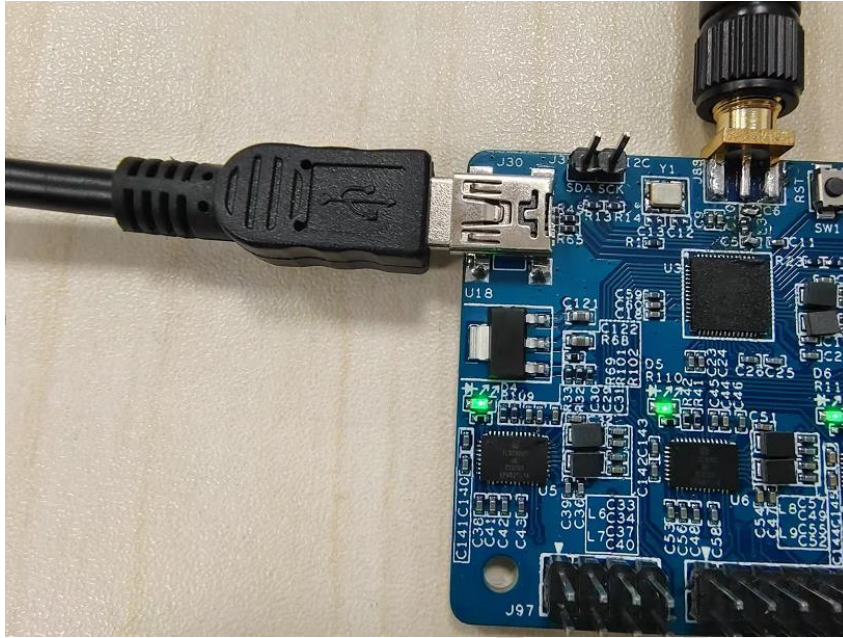


Figure 2-1 USB power supply

NOTICE:As shown in figure 2-2, the marker is the 3.3V and GND port. It is only used for the power supply of downloading firmware, the chip may not work under normal use.



Figure 2-2 3.3V power

1.4 Download firmware

There are one ways to download firmware, SWS burning. But need another burning tool Telink Burning EVK. Telink Burning EVK have 3.3V/SWS/GND port. When using SWS download firmware, connect 3.3V/SWS/GND of dongle to 3.3V/SWM/GND of Burning EVK. The connection mode is shown in Figure 2-2.

1.5 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, I2S port and debug port on board. The LED lights can indicate what status the TLSR9517CBAR56D is in. The key allow us to control TLSR9517CBAR56D. We can use debug port to debug TLSR9517CBAR56D. We can input/output I2S data through the I2S part.

The TLSR9517CBAR56D support audio line-in/out and mic-in functions. Realize this functions according to different software configurations.

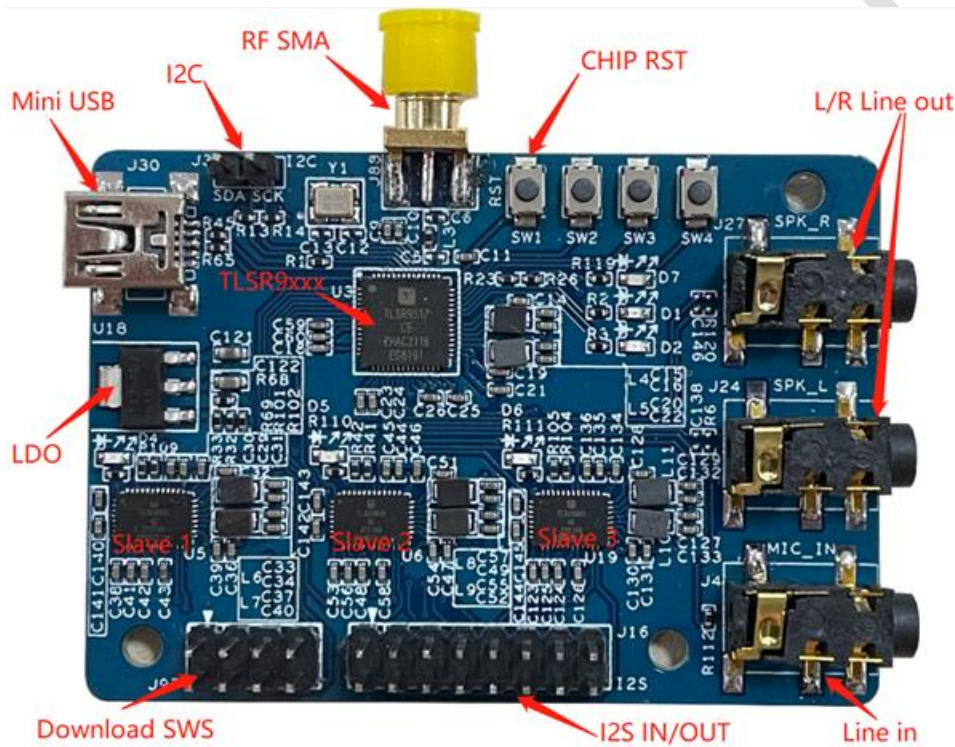


Figure 2-3 Function modules on the board

FCC Statement

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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an 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.

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.