

Telink

# TL9528ADK88D-User Guide

Telink Internal Only

# Product introduction

## ■ General introduction

- The TLSR9528ADK88D supports standards and industrial alliance specifications including Bluetooth 5.3 basic rate (BR), enhanced data rate (EDR), low energy (LE), indoor positioning, Bluetooth LE Mesh coexistence interface. The TLSR9528 combines the features and functions needed for high quality wireless audio and wearable.

## ■ Package Material list

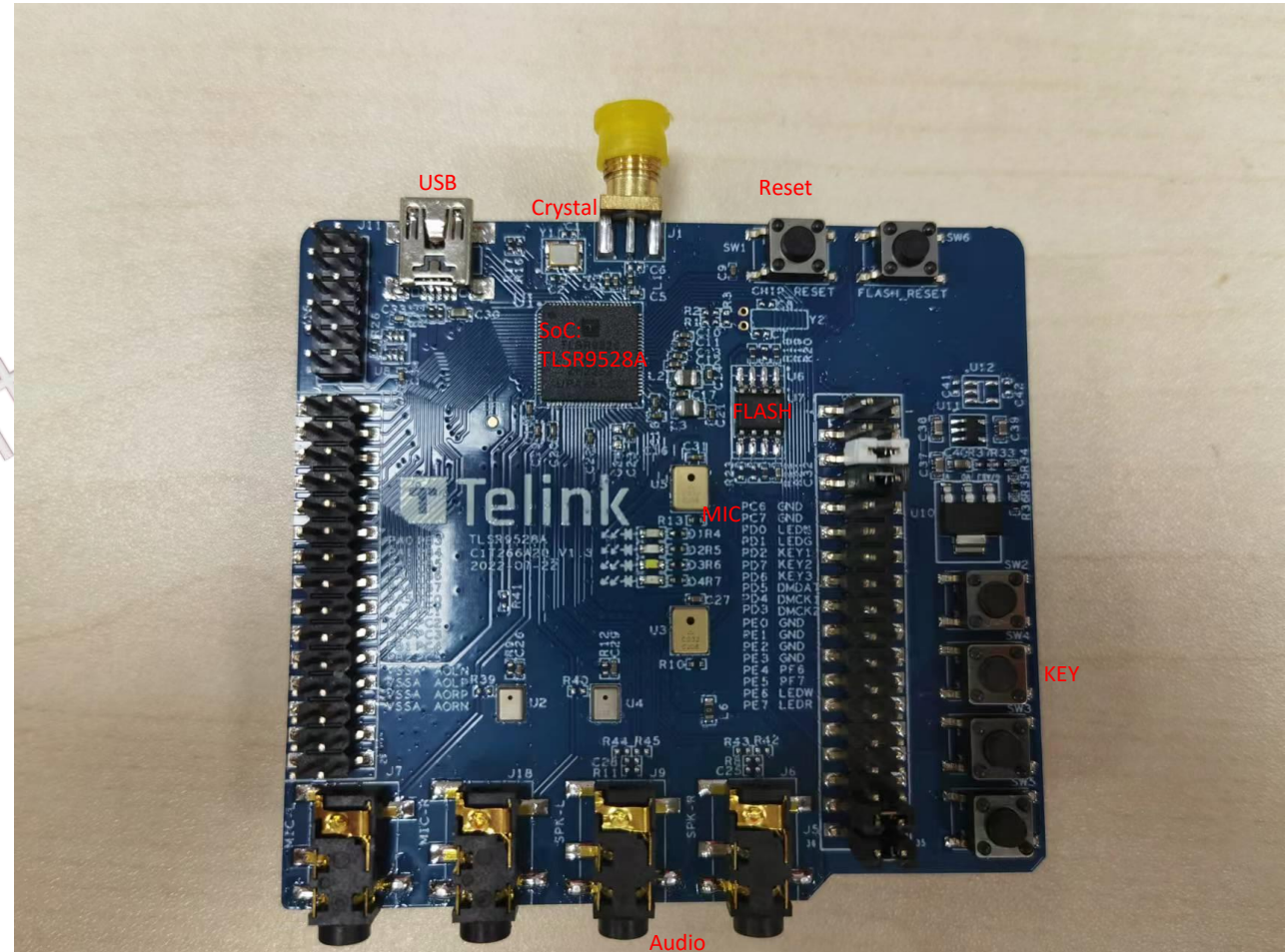
- 1x TLSR9528ADK88D
- 1x Burning EVK for TLSR9528ADK88D, Including the Dupont line
- 1x USB cable
- 1x 2.4G rod antenna



# TLSR9528ADK88D Introduction

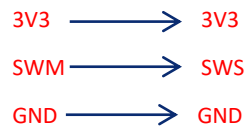
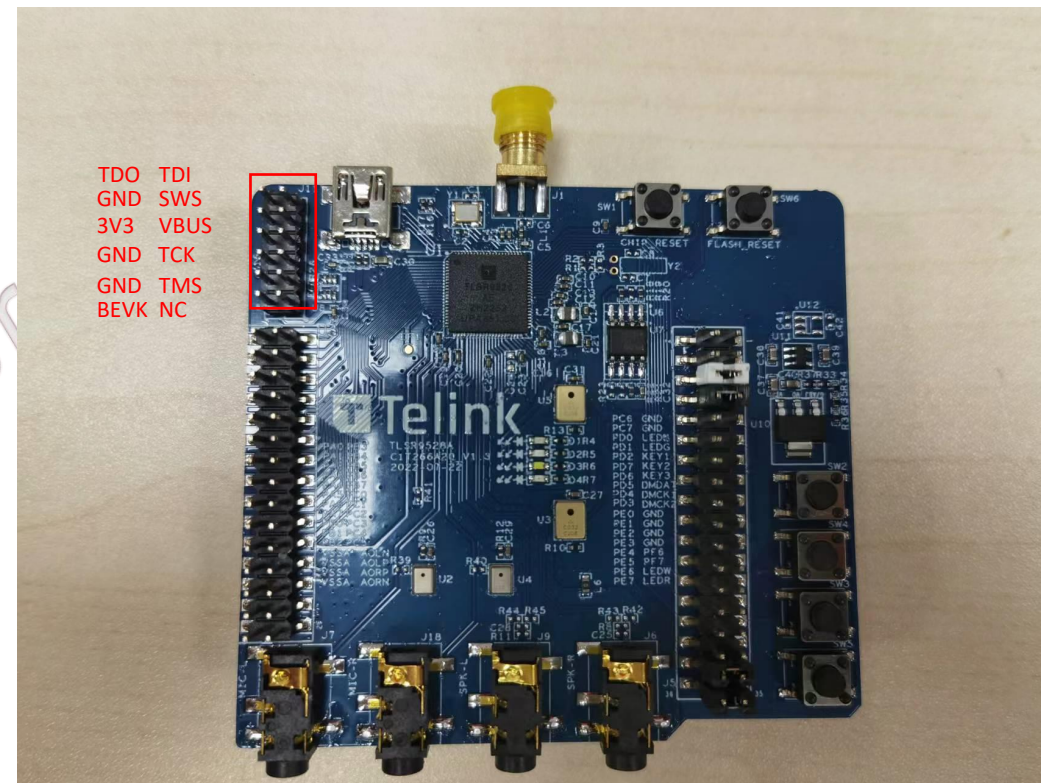
## ■ Key feature:

- ❑ Clock sources: 24 MHz & 32.768 kHz crystals and 24 MHz & 32 kHz embedded RC oscillators
- ❑ Up to 12 GPIOs (QFN24)/6 GPIOs (WLCSP). All digital IOs can be used as GPIOs.
- ❑ SPI/I2C/UART with hardware flow control and 7816 protocol support
- ❑ 4-channel DMIC (Digital Mic) and 2-channel AMIC (Analog Mic)
- ❑ 2-channel I2S with 24-bit 48 kHz sample rate



# TLR9528ADK88D Introduction- Continued

- POWER and SWS connection



## TLSR9528ADK88D Introduction - Continued

- RF port

- The TLSR9528ADK88D RF interface is a 3.5mm SMA plug. Therefore, it can be directly connected to the instrument for RF performance testing, and it can also be connected to the 2.4G rubber duck antenna for radiation testing

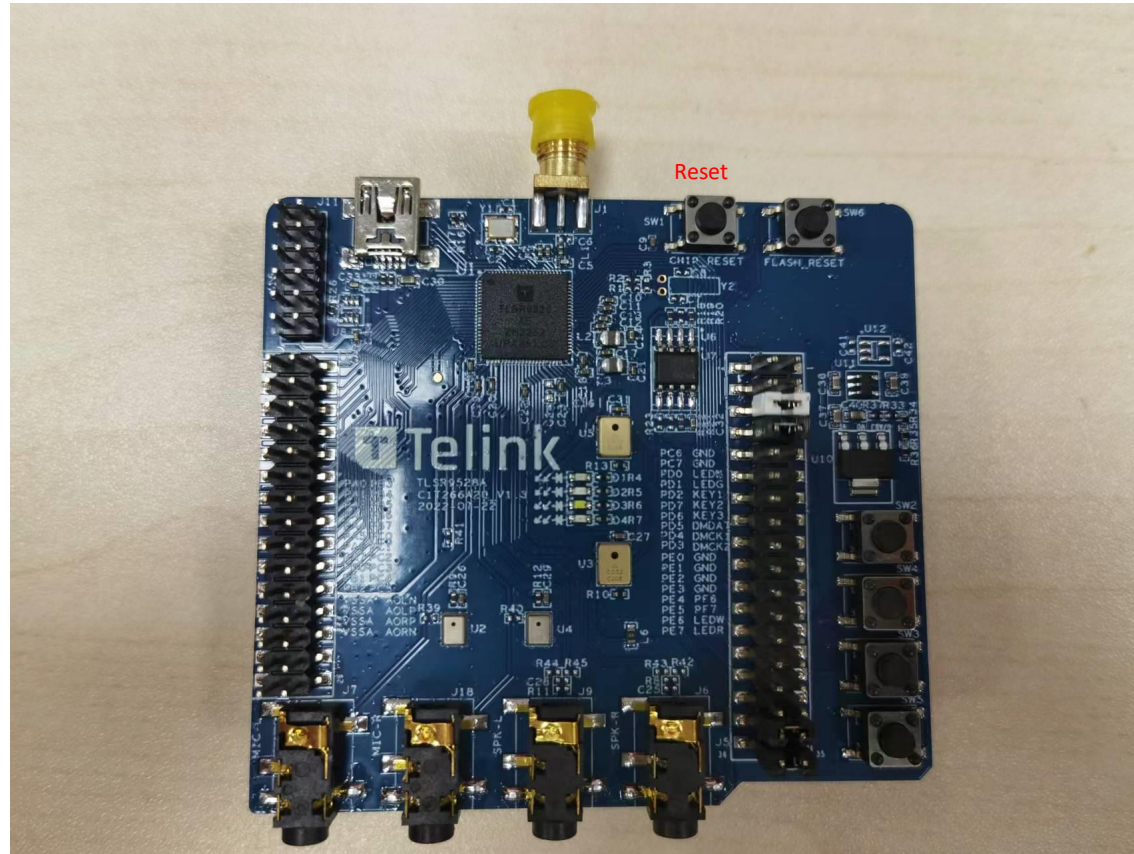


RF SMA



# TLSR9528ADK88D Introduction - Continued

- Reset button



# TLSR9528ADK88D Introduction - Continued

- Button



# TLSR9528ADK88D Introduction - Continued

- LED light





## Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

Note: 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.

## FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.