

# User Manual

## About this document

### Scope and purpose

This document provides description and information for the TLE9252V CAN Demoboard. This Demoboard can be used for all Infineon 14-pin standard CAN FD transceivers:

- TLE9252VSK Demoboard
- TLE9252VLC Demoboard

*Note: The following information is given as a hint for the implementation of our devices only and shall not be regarded as a description or warranty of a certain functionality, condition or quality of the device.*

### Intended audience

This document is intended for engineers who develop applications.

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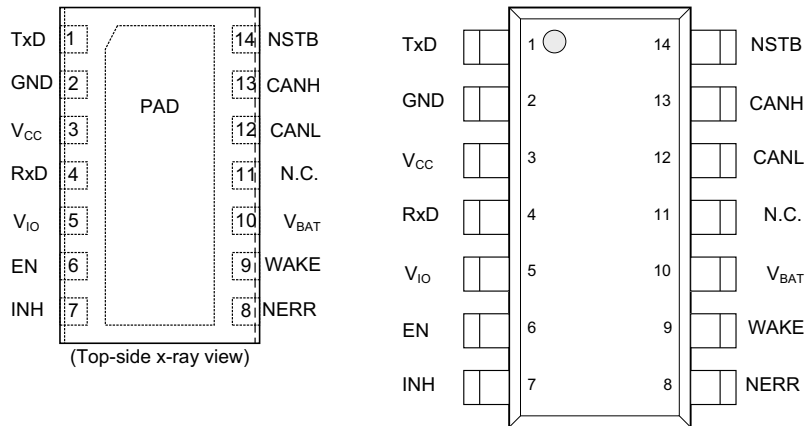
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**Summary**

**1 Summary**

This document is guideline for the HS CAN transceiver TLE9252V demoboard from Infineon Technologies AG and provides information for the proper usage of the demoboard.

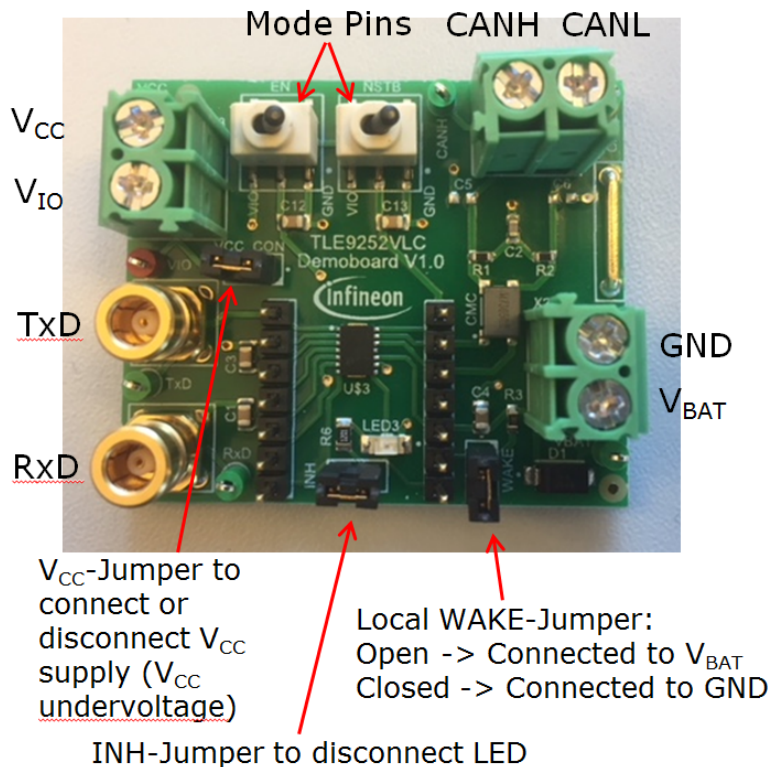
The demoboard can be used for all standard HS CAN transceiver on the market, which fulfill the OEM required standard pinout for either DSO-14 or TSON-14 package (see **Figure 1**).



**Figure 1 Pin-out of standard 14-pin CAN transceiver**

**2 General Function**

The demoboard can be used for various test cases and various HS CAN transceiver. Power supply failures can be simulated as well as different modes of operation. A configurable bus load on CANH and CANL allows to evaluate the signal form depending on the bus load (standard termination and split termination). The demoboard should be used to evaluate Infineon new CAN FD transceiver: TLE9252VLC or TLE9252VSK. Risks and disadvantages of competitor devices versus Infineon devices can be tested and measured.



**Figure 2 Example Picture of TLE9252VLC CAN Demoboard**

Schematic and PCB Layout

### 3 Schematic and PCB Layout

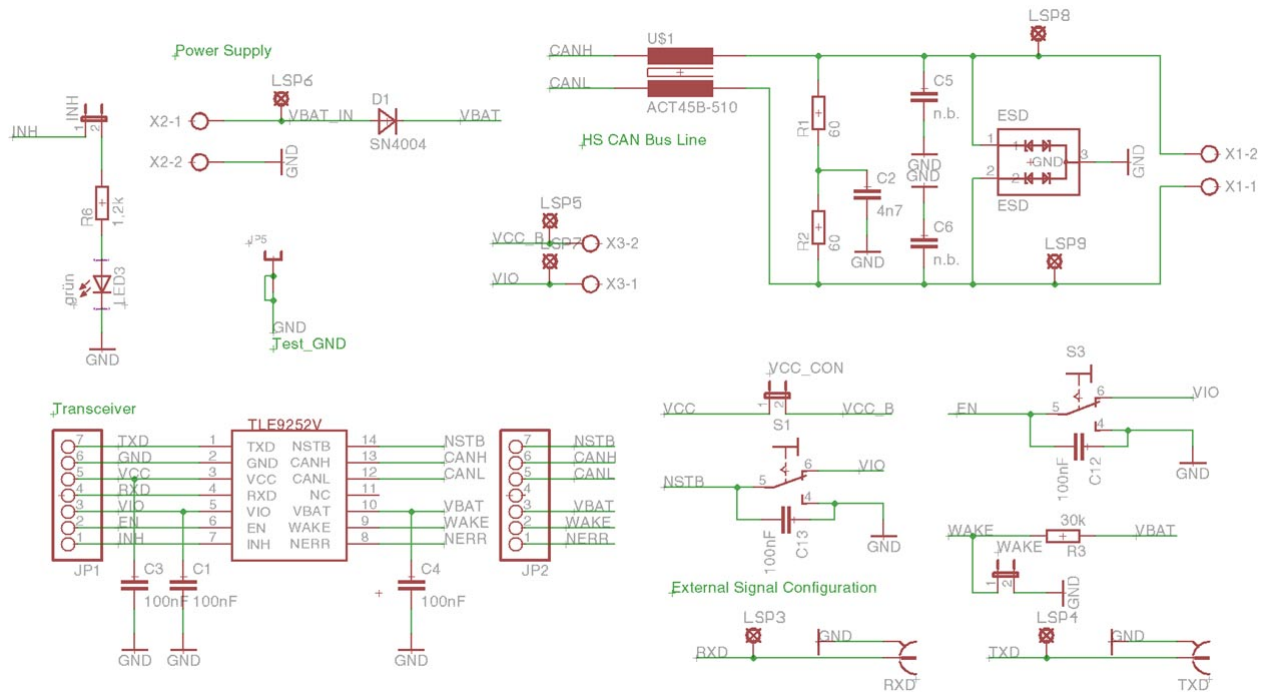


Figure 3 Schematic of TLE9252V CAN Demoboard

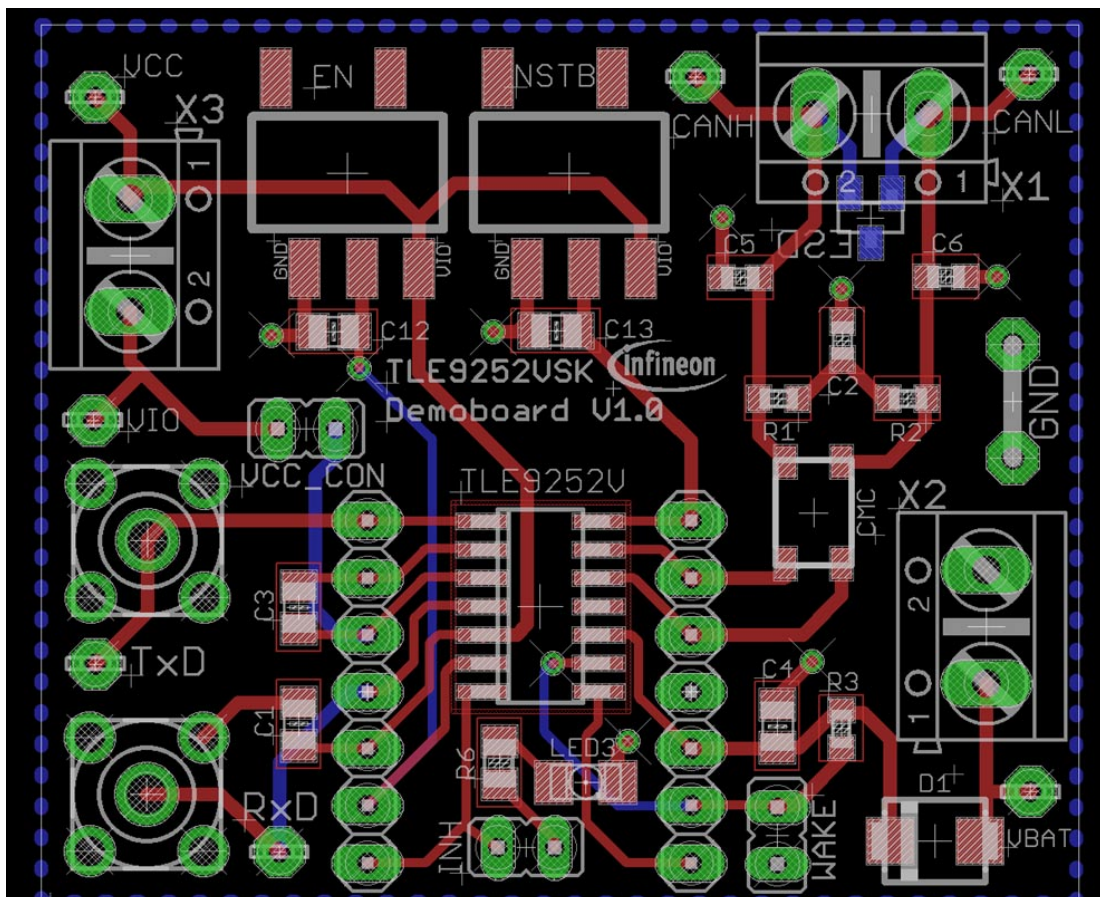


Figure 4 PCB layout of TLE9252VSK Demoboard (Top + Bottom)

Schematic and PCB Layout

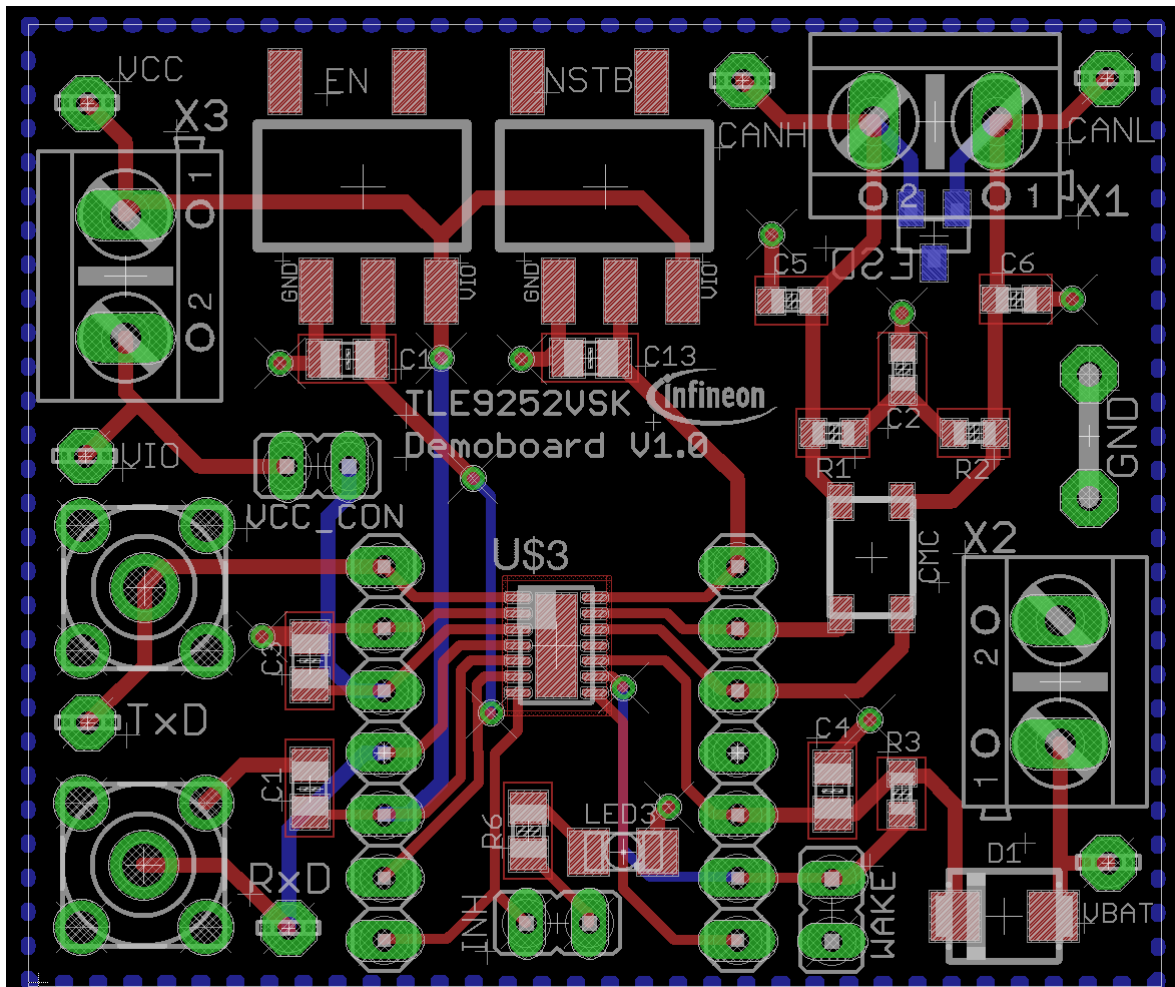


Figure 5 PCB layout of TLE9252VSK Demoboard (Top + Bottom)

All necessary external components are already on demoboard placed to evaluate the functionality of TLE9252V:

- Local Wake-up functionality
- INH pin
- $V_{CC}$  undervoltage behavior

**Summary**

## **4 Summary**

<b>Revision</b>	<b>Date</b>	<b>Changes</b>
1.0	2018-10-26	Demoboard Guideline created

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**Do you have a question about any aspect of this document?**

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**Document reference**

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