

# DSO-8 / TSON-8 CAN Demoboard

## User Manual

[Family  
overview](#)[Support](#)

## About this document

### Scope and purpose

This document provides description and information for the DSO-8 / TSON-8 CAN Demoboard. This demoboard can be used for all Infineon 8-pin standard CAN transceivers.

An overview of all products that can be evaluated by the DSO-8 / TSON-8 Demoboard can be found in the family overview link above.

*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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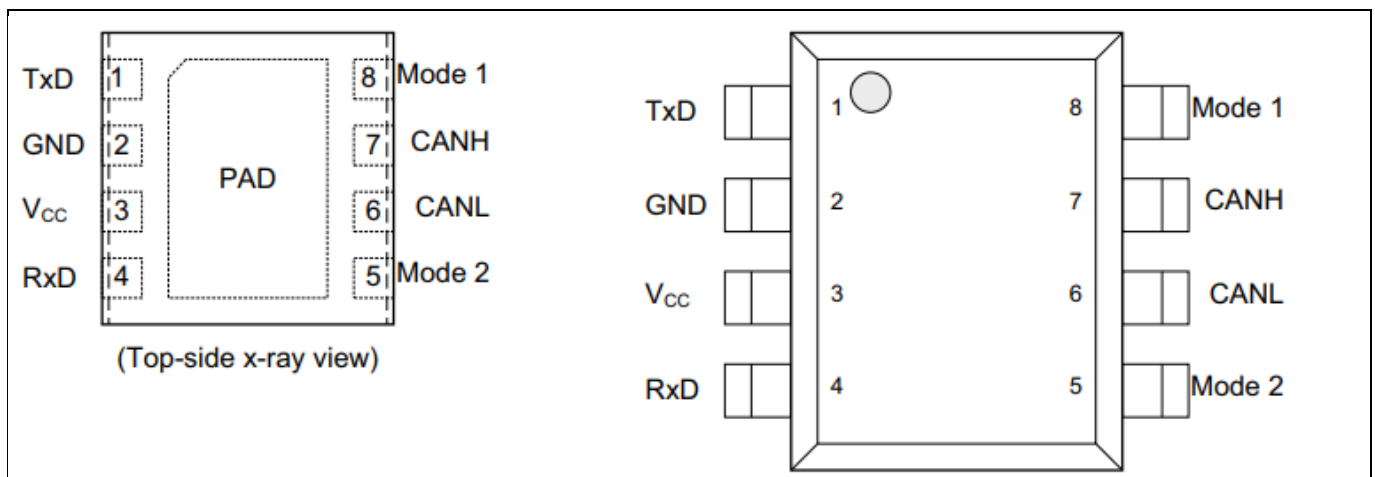
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## 1 Summary

This document is guideline for the HS CAN transceiver demoboard DSO-8/ TSON-8 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 DSO-8 or TSON-8 package (see Figure 1).



**Figure 1** Pin-out of standard 8-pin CAN transceiver

## 2 General Function

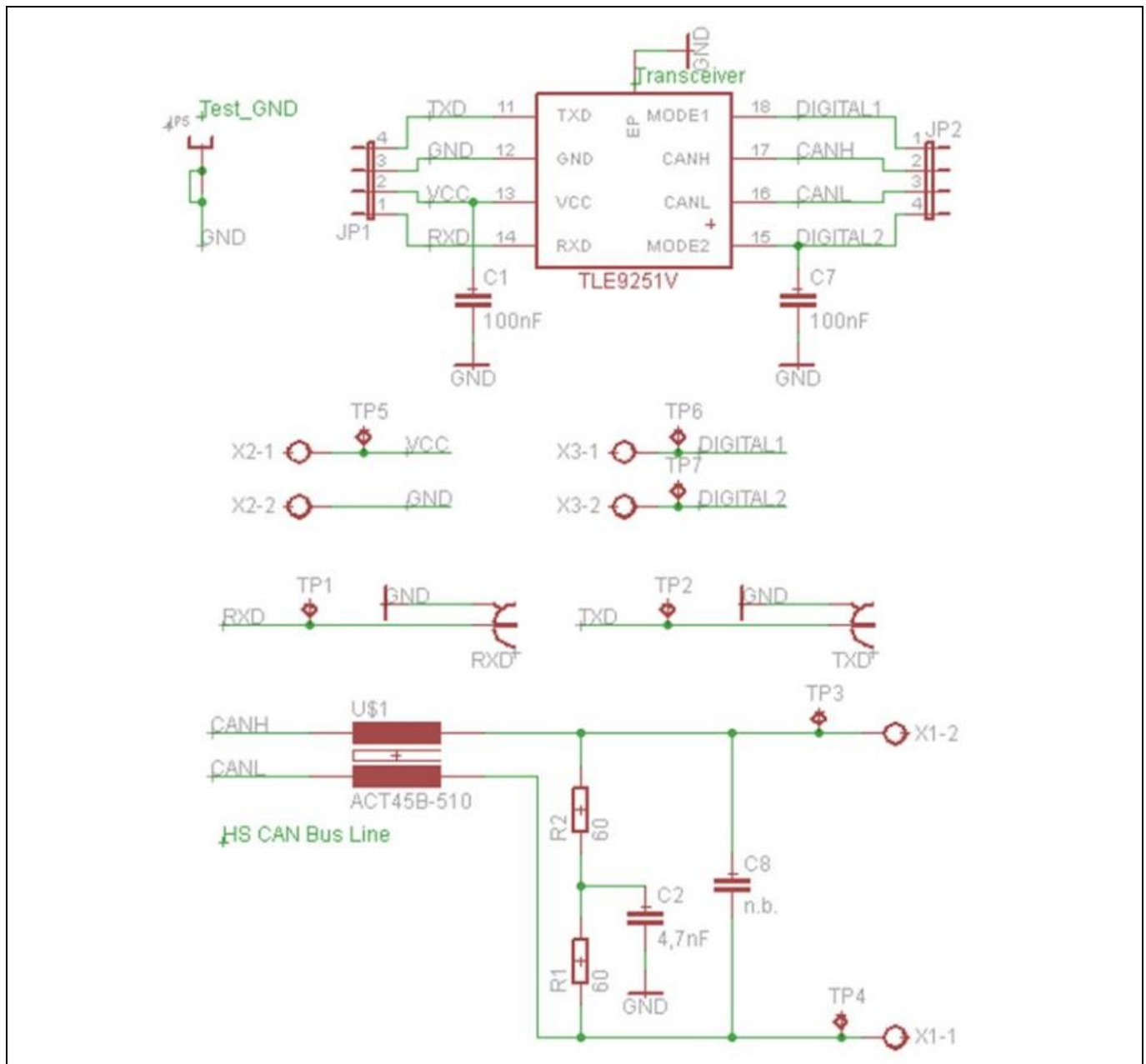
The demoboard can be used for various test cases and various HS CAN transceiver. Power supply failures can be simulated as well as different modes of operation. A configurable bus load on CANH and CANL allows to evaluate the signal form depending on the bus load (standard termination and split termination).

The demoboard should be used to evaluate existing and new CAN transceivers on the market. Advantages, risks and disadvantages of competitor devices versus Infineon devices can be tested and measured.

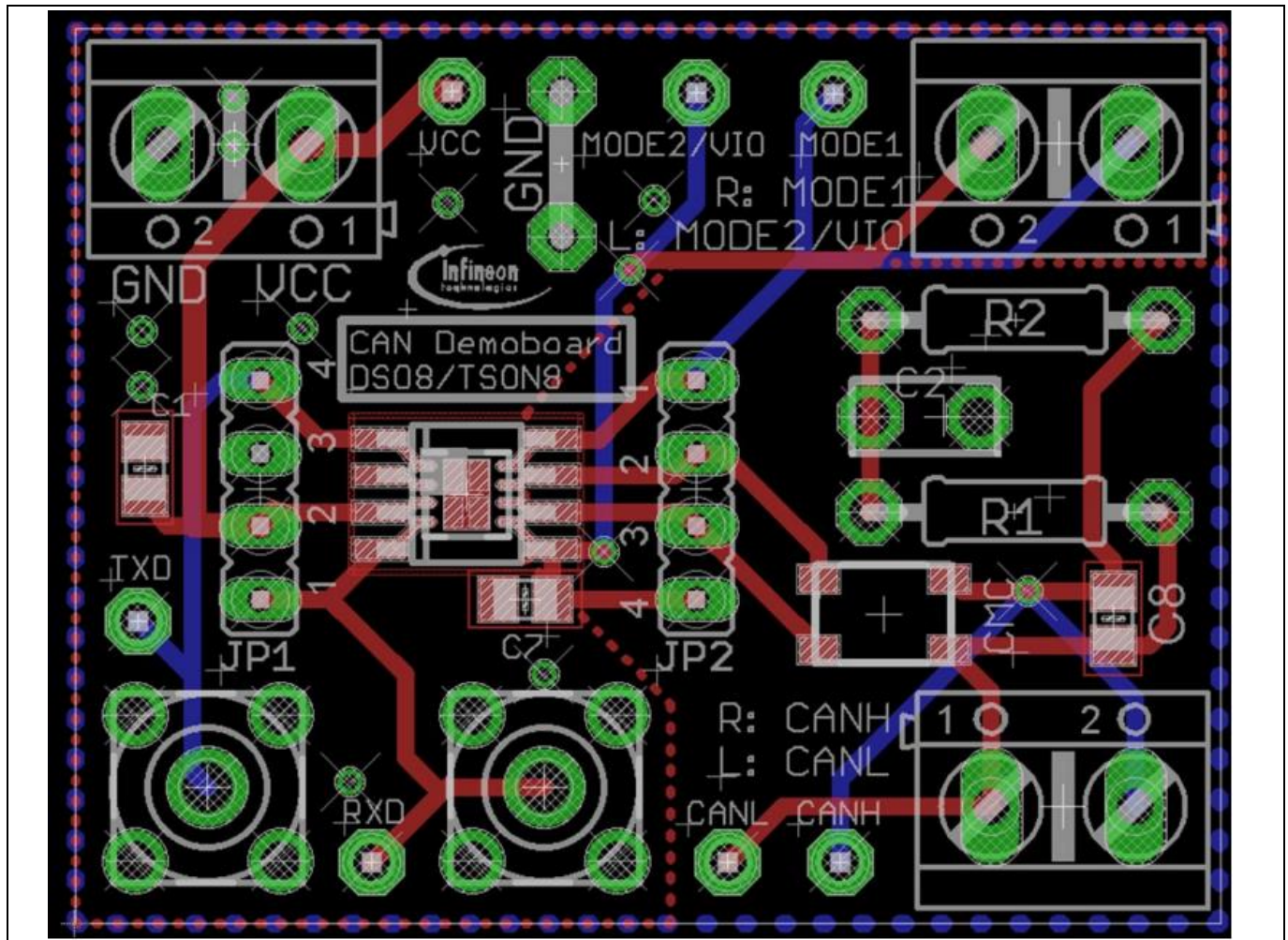


**Figure 2** Photo of the DSO-8 / TSON-8 CAN Demoboard

### 3 Schematic and PCB Layout



**Figure 3**      **Schematic of DSO-8 / TSON-8 CAN Demoboard**



**Figure 4** PCB layout of TLE925X demoboard (Top + Bottom)

**Table 1** Bill of Material

Part	Value	Device	Package
C1	100nF	Capacitor	C0805
C2	4.7nF	Capacitor	trough hole capacitor (0.05 inch diameter)
C7	100nF	Capacitor	C0805
C8	n.b.	Optional Capacitor	C0805
JP1	-	Header Row	
JP1	-	Header Row	
JP5	-	GND Connection for Oscilloscope	
R1	60	Resistor	trough hole resistor (0.05 inch diameter)
R2	60	Resistor	trough hole resistor (0.05 inch diameter)
TP1 - TP7		Test Points	p1-13 (0.05 inch diameter)
US1	100μH	Common Mode Choke	5.9mm x 3.4mm
US3		CAN Transceiver (e.g. TLE9251V	PG-DSO-8 / PGTSON-8
X1 - X3		Connector	W237-132 (0.2 inch pitch)

## Revision history

Revision	Date of release	Description of changes
1.1	2022-03-15	Editorial changes, inserting hyperlinks, updating of applicable products
1.0	2018-07-31	Initial release

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**Edition 2022-03-15**

**Published by**

**Infineon Technologies AG**

**81726 Munich, Germany**

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**Do you have a question about this document?**

**Email: [erratum@infineon.com](mailto:erratum@infineon.com)**

**Document reference**

**Z8F62791012**

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