
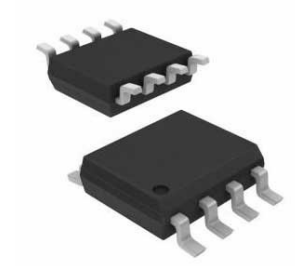


LIN Transceiver with Integrated Vreg 20kBd Automotive 8-Pin DSO T/R

Manufacturer:	Infineon Technologies Corporation
Package/Case:	SOP8
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Unconfirmed



Images are for reference only

[Inquiry](#)

General Description

It is designed for invehicle networks using data transmission rates up to 20 kbps. The TLE7258 operate as a bus driver between the protocol controller and the physical bus of the LIN network. Compliant to all LIN standards and with a wide operational supply range the TLE7258 can be used in all automotive applications. The usage of different operation modes and the INH output allows the TLE7258 to control external components like e.g. voltage regulators. In Sleep mode the TLE7258 draws typically less than 10 μ A of quiescent current while still being able to wake-up when detecting LIN bus traffic. The very low leakage current on the BUS pin makes the TLE7258 especially suitable for partially supplied networks. Based on the Infineon BiCMOS technology the TLE7258 provides excellent ESD robustness together with a very high electromagnetic compatibility (EMC). The TLE7258 reaches a very low level of electromagnetic emission (EME) within a broad frequency range and independent from the battery voltage. The TLE7258 is AEC qualified and tailored to withstand the harsh conditions of the automotive environment.

Key Features

Single-wire LIN transceiver for transmission rates up to 20 kbps

Compliant to ISO 17987-4, LIN Specification 2.2A and SAE J2602

Very low current consumption in Sleep mode with wake-up capability

Very low leakage current on the BUS pin

Digital I/O levels compatible with 3.3 V and 5 V microcontrollers

TxD protected with dominant time-out function and state check after mode change to Normal Operation mode

BUS short to VBAT protection and BUS short to GND handling

Over temperature protection and supply undervoltage detection

Very high ESD robustness, ± 10 kV according to IEC61000-4-2 and HBM

Optimized for high electromagnetic compatibility (EMC); Very low emission and high immunity to interference

Available in standard PG-DSO-8 and leadless PG-TSON-8 packages

PG-TSON-8 package supports Automated Optical Inspection (AOI)

Green Product (RoHS compliant)

AEC Qualified

Recommended For You

TLE6286

Infineon Technologies Corporation

SOP16

TLE6285

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SOP16

SLB9670XQ20FW785XUMA1

Infineon Technologies Corporation

VQFN32

BFP 540FESD E6327

Infineon Technologies Corporation

BGA

6MS30017E43W33015

Infineon Technologies Corporation

BGA

CY7B9514V-AC

Infineon Technologies Corporation

QFP

CYB06447BZI-BLD54

Infineon Technologies Corporation

BGA

BAT 17-06W H6327

Infineon Technologies Corporation

BGA

TT250NI2KOFKHPSA1

Infineon Technologies Corporation

BGA

BB 804 SF2 E6327

Infineon Technologies Corporation

BGA

SLS32AIA020A2USON10XTMA1

Infineon Technologies Corporation

SON10

SLB9670VQ20FW783XUMA1

Infineon Technologies Corporation

BGA

SLB9665TTI20FW562XUMA2

Infineon Technologies Corporation

TSSOP-28

BB689 E7903

Infineon Technologies Corporation

BGA

SLB9635TTI2XUMA3

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28-TSSOP0.1734.40mm