

## Product brief

# TLE7268SK and TLE7268LC

## Second generation of Dual LIN transceiver

The TLE7268 is Infineon's second generation Dual LIN transceiver designed for data transmission rates up to 20kbps being fully compliant to the ISO17987-4, LIN specification 2.2 A and SAE J2602 standards.

The TLE7268LC is offered in tiny leadless TSON-14 package with Lead Tip Inspection (LTI) feature providing automated optical inspection (AOI) capability. This makes the TSON-14 packaged Dual LIN transceiver perfectly suited for applications where tight space restrictions mandate the use of the smallest package possible.

In the automotive body and interior electronics related applications, the number of LIN networks is steadily increasing and as a result, some Body Control Modules (BCMs) are required to provide even more than 20 LIN bus connections. Additionally different component population variants for high-end to low-end BCM functionality is requested in order to realize the most attractive resulting BOM cost. Here Infineon's TLE7268LC is offering a perfect solution combining a TSON-14 package with a modular PCB placement capability of other single channel LIN transceivers, such as TLE7257LE, TLE7258LE or TLE7259-3LE.

TLE7268SK is also available in standard DSO-14 which also offers a PCB pinout compatibility of a single LIN transceiver like TLE7257SJ, TLE7258SJ and TLE7259-3GE.

TLE7268 Dual LIN Transceiver is also well suited for Gateways as well as ultrasonic parking modules, where the sensors are connected via a dedicated LIN Bus to the central module.

### Key applications

- > Body control modules and body domain controllers
- > Ultrasonic parking assist
- > Gateway modules

### Key features

- > Very low leakage current on the BUSx pins
- > Digital I/O levels compatible for 3.3 V and 5 V microcontrollers
- > Overtemperature protection
- > Undervoltage detection
- > Very high ESD robustness:  $\pm 10$  kV (IEC61000-4-2),  $\pm 8$  kV (HBM)
- > Optimized for high electromagnetic compliance (EMC)
- > Very low electromagnetic emission and high immunity to interference
- > Automated Optical Inspection (AOI) support with TSON-14 package
- > Green product (RoHS compliant)
- > AEC qualified.

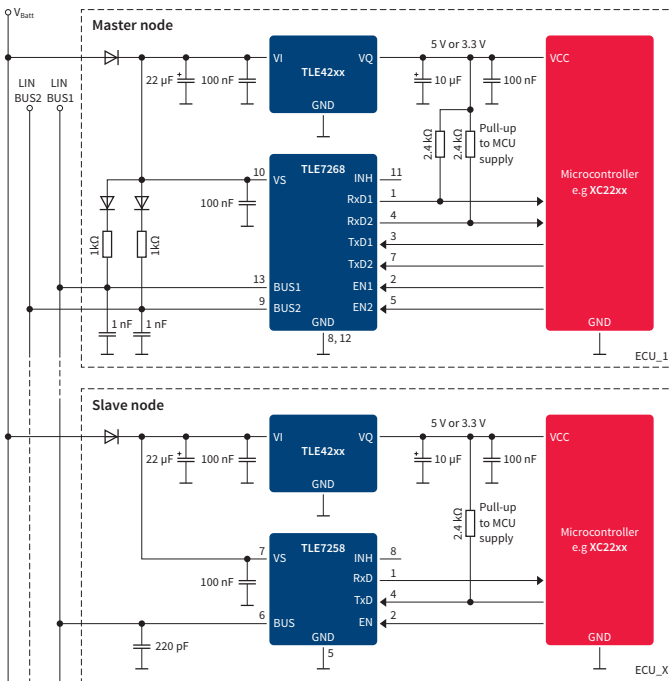
### Key benefits

- > Two independent single-wire LIN transceivers in one device
- > Very low current consumption in Sleep mode with wake-up capability
- > Pin and footprint compatible with single LIN transceivers in DSO-8 and TSON-8

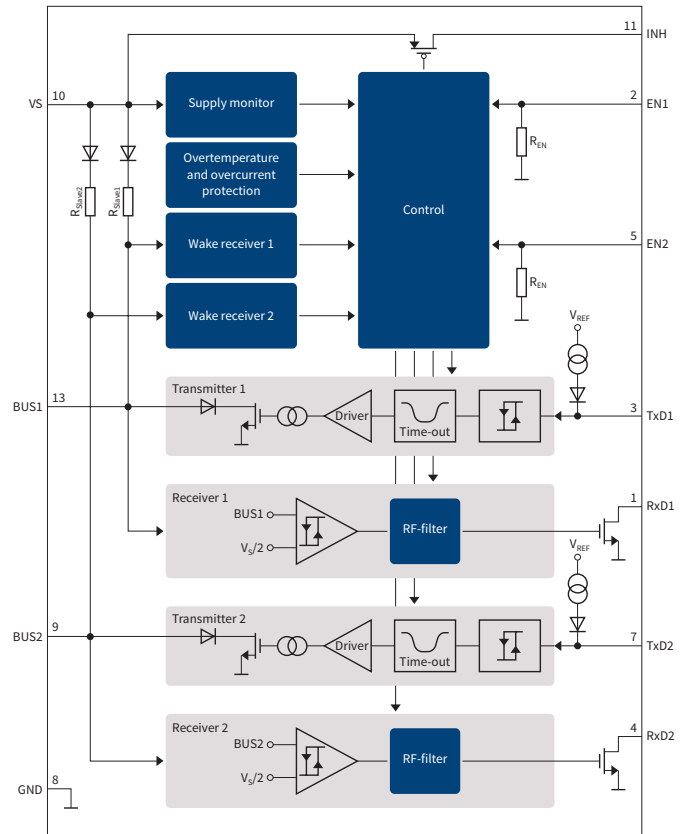
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Application diagram



Block diagram



Product table

Type	Description	Ordering part number
TLE7268LC	Dual LIN transceiver in TSON-14	TLE7268LCXUMA1
TLE7268SK	Dual LIN transceiver in DSO-14	TLE7268LCXUMA1

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