INFORMATION NOTE



N° 075/18

Dear Customer,

With this INFINEON Technologies Information Note we would like to inform you about the following

Data Sheet Update for TLE9250, TLE9250V, TLE9250X, TLE9251V

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Data Sheet Update for TLE9250, TLE9250V, TLE9250X, TLE9251V

► **Products affected:** Please refer to attached affected product list 1_cip07518

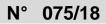
Detailed Change Information:

Subject: Data Sheet update with new rev. 1.1

Reason: Enhancement of Electrical Parameters, introduction of new Electrical Parameters, descriptive corrections and editorial changes

| Description: | <u>Old</u> | New |
|-------------------|--|---|
| Data Sheet Rev | DS Rev 1.0 | DS Rev 1.1 |
| Update | Unspecified parameters td(L),T, td(L),R, td(H),T, td(H),R mentioned in "Timing diagrams for dynamic characteristics" | Unspecified parameters td(L),T, td(L),R, td(H),T, td(H),R, removed in Figure "Timing diagrams for dynamic characteristics" in version 1.1. Applicable for all affected products |
| Update | ■ P_9.1.2: I _{CC_D} max. 60mA | P_9.1.2: I_{CC D} max. 48mA Applicable for all affected products |
| Update | P_9.1.18 t_{Delav(UV)} max. 100µs for rising and falling edge | P_9.1.18 divided in t_{Delav(UV). F} max. 30µs for falling edge and t_{Delav(UV). R} max. 100µs for rising edge. Adapted Figure 9 "Undervoltage on the transmitter supply V_{CC}" accordingly. Applicable for TLE9250VSJ, TLE9250VLE, TLE9250XSJ, TLE9250XSJ, TLE9251VSJ, TLE9251VLE |
| Update | P_9.1.5 maximum temperature T_J < 125°C | P_9.1.5 extended maximum temperature T_J < 150°C. Applicable for TLE9251VSJ / TLE9251VLE |
| Update | Not specified | Introduced new Stand-by Mode current consumption for V_{IO} t < 85°C: max. 12µA (P_9.1.6) Applicable for TLE9251VSJ / TLE9251VLE |
| Update | P_9.1.5 I_{IO_(PSM)} max. 15μA at maximum temperature of T_J < 125°C. Typical value I_{IO_(PSM)}7μA | P_9.1.5 I_{IO_(PSM)} reduced to maximum 14µA at extended maximum temperature of T_J < 150°C. Typical value of I_{IO_(PSM)} reduced to 5µA <i>Applicable for TLE9250VSJ / TLE9250VLE</i> |

INFORMATION NOTE





| Update ■ | P_9.1.4 $I_{CC_{(PSM)}}$ max. 20µA at maximum temperature of $T_J < 125$ °C. | P_9.1.4 I_{CC_(PSM)} reduced to maximum 17µA at extended maximum temperature of T_J < 150°C. Introduced typical value of I_{CC_(PSM)}: 5µA Applicable for TLE9250SJ / TLE9250LE |
|----------|--|--|
| Update • | Table 2 "Modes of Operation" NEN pin in Receive-only Mode "X" and NRM pin described as "on" Table 2 "Mode of Operation" NRM pin described as "on" | Corrected description in Table 2 "Modes of Operation" for NEN in Receive-only Mode "low" and changed description of NRM pin "low" Table 2 "Mode of Operation" for NRM pin described as "high" <i>Applicable for TLE9250SJ / TLE9250LE</i> |
| Update ■ | Table 2 "Modes of Operation" NEN pin in Forced-receive-only Mode: "X" | Corrected description in Table 2 "Modes of Operation" for NEN in Forced-receive-only Mode: "low" Applicable for TLE9250VSJ / TLE9250VLE |
| Update ■ | In Chapter 4 it is mentioned the device supports bus wake-up function. | Since the device does not support bus wake-up function this sentence has been removed in order to avoid confusion. Applicable for TLE9250VSJ / TLE9250VLE / TLE9250SJ / TLE9250LE / TLE9250XSJ / TLE9250XLE |

| Product Identification: | Independent of date code. No product change. | |
|--------------------------------|---|--|
| Impact of Change: | No change of chip design or any product property. Update and correction of description in DS. | |
| Attachments: | 1_cip07518 3_cip07518 Data Sheet Rev 1.1 | |
| Intended start of delivery: | Not applicable; documentation update only. | |

If you have any questions, please do not hesitate to contact your local Sales office.

Info Note 075/18 Data Sheet Update for TLE9250, TLE9250V, TLE9250X, TLE9251V



| Sales Name | SP number | OPN | Package |
|------------|-------------|-----------------|-----------|
| TLE9250LE | SP001631572 | TLE9250LEXUMA1 | PG-TSON-8 |
| TLE9250SJ | SP001358154 | TLE9250SJXUMA1 | PG-DSO-8 |
| TLE9250VLE | SP001631590 | TLE9250VLEXUMA1 | PG-TSON-8 |
| TLE9250VSJ | SP001358156 | TLE9250VSJXUMA1 | PG-DSO-8 |
| TLE9250XLE | SP001631594 | TLE9250XLEXUMA1 | PG-TSON-8 |
| TLE9250XSJ | SP001358158 | TLE9250XSJXUMA1 | PG-DSO-8 |
| TLE9251VLE | SP001631598 | TLE9251VLEXUMA1 | PG-TSON-8 |
| TLE9251VSJ | SP001358162 | TLE9251VSJXUMA1 | PG-DSO-8 |