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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N° 075/18

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