ERRATA SHEET
DS21348/DS21Q348

Revision B1 Errata

The errata listed below describe situations where DS21348/DS21Q348 revision B1 components perform differently than expected or differently than described in the data sheet. Maxim Integrated Products, Inc., intends to correct these errata in subsequent die revisions.

This errata sheet only applies to DS21348/DS21Q348 revision B1 components. Revision B1 components are branded on the topside of the package with a six-digit code in the form yywwB1, where yy and ww are two-digit numbers representing the year and work week of manufacture, respectively. To obtain an errata sheet on another DS21348/DS21Q348 die revision, visit our website at www.maxim-ic.com/errata.

1) TRANSMIT OPEN-CIRCUIT DETECTION

Description:
The transmit open-circuit detect bit (TOCD) in the status register should be set when the device detects an open circuit at TTIP and TRING. The performance of this bit (SR.1) is unreliable, and is especially unreliable in sparse data patterns when nB8ZS is not used.

Workaround:
None.

2) RECEIVE LEVEL INDICATION

Description:
The DS21348 and DS21Q348 should report the signal strength in RTIP and RRING in 2.5dB increments through the RL[3:0] (RIR2.[7:4]) bits in the receive information register 2. However, there is an error of ±2 LSBs, i.e., ±5dB, in the receive level indication.

Workaround:
None.

3) MARGINAL PULSE TEMPLATE

Description:
Due to slow slew rates, the pulse template is marginal for the following line build-outs for T1 (ETS = 1).

L2	L1	L0	V_{DD}	APPLICATION	N	RETURN LOSS	R_T (Ω)
0	0	1	3.3V	DSX-1 (133 to 266 feet)	1:2	N.M.	0Ω
0	1	0	3.3V	DSX-1 (266 to 399 feet)	1:2	N.M.	0Ω
0	1	1	3.3V	DSX-1 (399 to 533 feet)	1:2	N.M.	0Ω
1	0	0	3.3V	DSX-1 (533 to 655 feet)	1:2	N.M.	0Ω

N.M. = Not meaningful