ERRATA TO THE TSB12LV21A PCILynx DATA SHEET

(TEXAS INSTRUMENTS LITERATURE NO. SLLS273, APRIL 1997)

This document contains corrections and additions to information in the TSB12LV21A data sheet (TI Literature Number SLLS273, April 1997), also included in *IEEE 1394 Circuits Data Book*, 1997 (TI Literature Number SLLD004). The following items apply to TSB12LV21A *production devices* only, PCI rev. ID = 2&3:

- a. Electrical isolation as described in Appendix J of IEEE 1394–1995 is not supported by the TSB12LV21APGF. TI has an improved isolation technique, and that is the recommended isolation solution.
 - Please see *Galvanic Isolation of the IEEE 1394–1995 Serial Bus* (TI Literature Number SLLA011).
- b. If posted writes are enabled, a slave access to PCILynx can be continuously retried on the PCI bus under certain unusual conditions.

Suggested Work Around:

- Set the ENA_POST_WR bit in the miscellaneous control register to 0.
- c. No error indication is given when one of the following types of illegal packet is received:
 - A packet containing a header with a tcode for no-data
 - A quadlet data packet that also contains a data block payload

In these cases, the tcode specified that there should be no data block payload. If a data block payload is attached to such a packet, no error is indicated. In normal (other than snoop) mode, the PCILynx DMA transfers only the data specified in the header to the data buffer and the remaining data is flushed. In snoop mode, all data is transferred.

- d. In the case of a packet with multiple errors including an ATF underflow, the underflow will not be counted if the ack status reports another error. The ATF underflow counter is incremented only when an ack status of 10010 (type 1, code 2) is returned.
- e. Incidents of transmit ack error code 11110 (type 1, code E) have been reported. This error code indicates that the link reported a corrupted header before the packet was transmitted. The exact nature of this error is not known, however it is believed to be related to retries and/or underflow errors.



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