

LTC3886 ERRATA

The errata below describes conditions that cause an **LTC®3886** device to operate differently than expected or described in the data sheet.

ERRATA SUMMARY

ERRATA NUMBER	DESCRIPTION	PAGE
1	STATUS_WORD	1

ERRATA #1: STATUS_WORD VS STATUS_BYTE

Bits in STATUS_WORD LSB may be asserted when the STATUS_WORD MSB reports all zeros.

Conditions:

The following conditions, when present simultaneously, may expose this problem:

- 1) When polling STATUS_WORD, if a fault occurs at the right time, the read value can have a bit set in the lower byte with no corresponding bits set in the upper byte.

Impact:

A minor inconsistency can occur when firmware is polling the STATUS_WORD register of the part.

Root Cause:

The two bytes making up STATUS_WORD are transferred separately to the I²C controller of the LTC3886. If STATUS_WORD is read between transfers, an incoherent read can occur.

Workarounds:

Several workarounds are possible, depending on the system configuration and requirements. Contact LTC Factory Applications for additional assistance.

Poll STATUS_BYTE instead of STATUS_WORD – STATUS_BYTE indicates the part status sufficiently.

Poll STATUS_WORD twice if a discrepancy is detected – STATUS_WORD will poll correctly immediately after the first incorrect reading.

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