МАХIМ

ERRATA SHEET
DS8500

Revision A2 Errata

The errata listed below describe situations where DS8500 revision A2 components perform differently than expected or differently than described in the data sheet. Maxim Integrated Products, Inc., intends to correct these errata when the opportunity to redesign the product presents itself.

This errata sheet only applies to DS8500 revision A2 components. Revision A2 components are branded on the topside of the package with a six-digit code in the form yywwA2, where yy and ww are two-digit numbers representing the year and work week of manufacture, respectively. To obtain an errata sheet on another DS8500 die revision, submit your request at https://support.maxim-ic.com/micro.

1) THE OUTPUT CARRIER DETECT (OCD) SIGNAL MAY SPIKE UNDER CERTAIN CIRCUMSTANCES

Description:
Spikes on the OCD pin may occur:
a) At carrier start time when being powered up in receive mode.
b) When device is being switched from transmit to receive mode.

Workaround:
The external microcontroller can monitor for the situations described and can ignore the erroneous spikes.

2) THE DIGITAL DATA OUT (D_OUT) SIGNAL MAY SPIKE IN RECEIVE MODE

Description:
The following may occur after the carrier signal on FSK_IN is complete and FSK_IN is idle:
a) A spike on the D_OUT pin.
b) A false message start could be generated during the idle period before OCD pin gets deactivated.

Workaround:
Transitions on D_OUT while FSK_IN is idle can be ignored by the external microcontroller.

DS8500
REV A2 ERRATA

3) THE FSK_OUT SIGNAL MAY TERMINATE UNEXPECTEDLY WHEN THE RTS PIN IS SWITCHED FROM TRANSMIT TO RECEIVE

Description:
When switching from transmit to receive mode the FSK_OUT pin will instantaneously transition to 1.23V. The modem listening to this line could interpret this as a false carrier.

Workaround :
The external microcontroller can monitor for the RTS transition and ignore the FSK_OUT transition as a carrier detect.

REVISION HISTORY

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	7/12	Initial release	—