



ERRATA SHEET

DS26303

Revision A3 Errata

The errata listed below describe situations where DS26303 revision A3 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 DS26303 revision A3 components. Revision A3 components are branded on the top side of the package with a six-digit code in the form yywwA3, where yy and ww are two-digit numbers representing the year and workweek of manufacture, respectively. The die revision can also be determined through the lower three bits of the ID register at location 00h. The value in these three bits is 2h on revision A3 devices. To obtain an errata sheet on another DS26303 die revision, visit our website at www.maxim-ic.com/errata.

1) ANALOG LOOPBACK NOT RELIABLE IN T1 MODE

Description:

DS26303 rev A3 devices may not correctly interpret 0s when configured for analog loopback in T1 mode. This will occur if reflected overshoots and undershoots in the loopback signal are large enough to cause the internal receiver to mistake 0s for 1s.

Workaround:

Terminate TTIP and TRING when configuring the DS26303 for analog loopback in T1 mode.

Or:

Switch to an E1 template when configuring the DS26303 for analog loopback in T1 mode. This is not compatible with minimum 1's coding as the DS26303 will do HDB3 coding instead of B8ZS coding with an E1 template. The DS26303 receiver also uses a different algorithm for AIS detection in E1 mode than it uses in T1 mode.