MINDSPEED™

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Bt8370/Bt8375/Bt8376

Product Bulletin: Upgrading Bt837x Designs

Product Affected: Bt8370/Bt8375/Bt8376

This document describes the changes that are required to upgrade an existing design based on Bt8370-20, Bt8370-21, Bt8375-16, Bt8375-17, Bt8376-16 or Bt8376-17 to Bt8370-22, Bt8370-23, Bt8375-23 or Bt8376-23 devices.

- DID (Device Id; addr 000) for the new revisions is different. Please see the table below for new values:

Device	DID
Bt8370-22	9
Bt8370-23	9
Bt8375-23	9
Bt8376-23	9

If your application software checks for the DID, please modify the software as per the new values given in the table above.

- The device-side secondary protection on the Tx lines is no longer required for Bt8370-22, Bt8370-23, Bt8375-23, or Bt8376-23 devices.
- Earlier versions of the Bt8370, Bt8375 and Bt8376 devices required device-side secondary protection devices for improved latchup immunity as illustrated in Figures 4-1 and 4-4 of the Bt8370/75/76 data sheet (doc# N8370DSE).

NOTE: The Bt8370-22, Bt8370-23, Bt8375-23, or Bt8376-23 devices work fine even if the device-side secondary protection on the Tx lines is still present.

- In the newer Bt8370/Bt8375/Bt8376 parts (Bt8370/22 or Bt8370-23, Bt8375-23, Bt8376-23), the reset path going from IER4 to IER7 is no longer blocked. IER4 to IER7 are properly reset by a software or hardware reset, however the POR procedure as described in section 2.10.4 of the Bt8370 data sheet (document # 500030B) is still necessary since the LOOP register needs to be manually reset.

Please contact your local Mindspeed Technologies sales office for placing orders for the newer devices.