

TSB41BA3B Errata

1 Disappearing IDLE in a Beta system Issue

1.1 *Description*

Disappearing IDLE in a Beta system results in max arbitration state timeout and bus reset. Specifically in Beta systems with more than four cable hops, unwanted bus resets may occur.

1.2 *Cause*

A short IDLE between a data packet and an arbitration grant disappears.

As signals propagate across the 1394 network, the IDLE between a data packet and an arbitration grant shortens since the time needed to repeat a data packet is longer than the time needed to repeat a grant.

1.3 *Workaround*

Add a 1394A PHY to the system to force legacy gap timing on the 1394 bus.

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