

We've identified a problem with the DS80C400 and the LXT972A reset. When you do a slush reboot or a JavaKit reset, the DS80C400 resets the LXT972A. The combination of DS80C400 reset and LXT972A reset sometimes does not work properly, preventing the transmission of network packets.

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Note that there is NO problem on "cold" power up!

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("Cold" meaning connection of the power supply or a brownout)

If you have problems networking after unplugging the power supply, waiting 10 seconds, connecting the power supply, this fix is NOT for you. To reiterate, this fix is ONLY for people who lose networking after (a) a slush reset or (b) a JavaKit reset.

We have implemented a fix on boards shipped after June 15<sup>th</sup>, 2003. The following is a quick crude fix for the TINIs400 (REV B) for those of you who cannot live with the problem. PLEASE ONLY DO THIS IF YOU ARE AFFECTED BY THE PROBLEM and if you feel you're capable of performing the modification (if not, please contact Clayton.Ware@dalsemi.com off list and we'll modify the TINIs400 for you).

Please view the image below before starting this modification.

1. Put the TINIs400 (REV B) in front of you so that the upper left corner reads "www.MAXIM-IC.com".
2. Locate R16 (to the right of the big optional J28 connector).
3. Follow the vertical trace down, and then to the left (you'll reach the horizontal trace above C29, below C24).
4. Using a sharp knife, cut this horizontal trace above C29, below C24. Do not cut too wide or deep, just enough to interrupt the connection.

PLEASE SEE THE IMAGE BELOW FOR VISUAL CONFIRMATION.

This hack disconnects the reset output RSTOL\ from the DS80C400 to the LXT972A RESET\ input while preserving the pull-up R16 from the LXT972A reset input to VCC. Since the RSTOL\ output of the DS80C400 is push-pull, the resistor is not necessary for other devices connected to RSTOL\ (the optional U12 CPLD, for example).

The TINIs400 behavior will be slightly changed: The PHY configuration input jumpers (J9, J10, J11) will only be sampled on (cold) power up, not on reset.

