



PCN Number: 0603

PCN Change Level: Major

Subject: Programming Software Changes for RTAX-S and RTSX-SU (UMC)

February 3, 2006

Dear Customer,

Actel appreciates your business and the opportunity to support your RTAX-S and RTSX-SU requirements. This document contains information regarding programming software for these devices. The information is intended to ensure proper programming and the highest possible yield.

Overview

Each Actel device has a "silicon signature" area, where manufacturing information is programmed at the factory. In response to customer requests, Actel has recently begun adding information indicating the wafer location of each die to the silicon signature of our RTAX-S and RTSX-SU space-flight FPGAs. The additional information is included for failure analysis purposes and has no effect on the functionality or operation of the FPGAs. Versions of Silicon Sculptor programming software prior to v3.87 (DOS) / v4.50.0 (WIN) will detect the extra information in the silicon signature and reject the devices with a "failed blank check" message.

Software Requirements

Starting with v3.87 (DOS) / v4.50.0 (WIN), the Silicon Sculptor programming software will ignore the additional data in the silicon signature. Customers who are intending to program RTAX-S and RTSX-SU devices must use Silicon Sculptor programming software v3.87 (DOS) / v4.50.0 (WIN) or later. Actel recommends always using the most recent version of software. This software may be downloaded free of charge from the Actel website, at <http://www.actel.com/custsup/updates/silisculpt/>.

Note that the v3.87 (DOS) / v4.50.0 (WIN) and later programming software is compatible with more recent silicon, which has additional wafer location information programmed into the silicon signature, and earlier silicon, which does not have the additional information programmed into the silicon signature. Therefore, once the programming software is updated, it is compatible with all silicon.



Affected Silicon Products

All Actel RTAX-S and RTSX-SU products will have the additional information programmed into the silicon signature area. To ensure acceptable programming yield, Actel strongly encourages customers to upgrade to the latest programming software. The shipment date of the material with the additional information will vary with device type and package type, and will commence no earlier than 90 days after the date of this letter.

For further information, please contact the Actel applications department by emailing tech@actel.com.

Regards

Actel Corporation