



PCN Number: 0607

PCN Change Level: Minor

May 9, 2006

Subject: RTAX-S V_{CCA} Guidelines Update

Dear Customer,

This notice is to inform you that in order to ease design constraints on power supply, Actel has analyzed and modified the guidelines for V_{CCA} for the RTAX-S product family.

The revised guidelines are as follows:

- Absolute maximum ratings (for 1.5 V / 1.8 V / 2.5 V / 3.3 V operating conditions).
 - DC core supply voltage (V_{CCA}) . . . -0.3 to +1.7 V
 - AC core supply transient voltage (V_{CCA}) . . . -0.3 to +1.8 V
- Recommended operating conditions.
 - 1.5 V core supply voltage (V_{CCA}) . . . 1.425 to 1.575 V DC

Notes:

1. The absolute maximum ratings for V_{CCA} is increased from +1.6 V to +1.7 V; there is no change on recommended operating conditions.
2. The AC transient V_{CCA} limit is for radiation-induced transients less than 10 μ s duration and not intended for repetitive use. Core voltage spikes from a single-event transient will not negatively affect the reliability of the device if, for this nonrepetitive event, the transient does not exceed 1.8 V at any time and the total time that the transient exceeds 1.575 V does not exceed 10 μ s in duration.

The RTAX-S datasheet will be updated with this new information. The updated version of the datasheet will be available by the end of May 2006. Customers designing with the RTAX-S product family should take advantage of the above revised guideline when designing with the product.

For further information, please contact the Actel Application Hotline at tech@actel.com.

Regards,

Actel Corporation