



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  $\mu$ 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  $\mu$ 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](mailto:tech@actel.com).

Regards,

Actel Corporation