



PROCESS CHANGE NOTIFICATION ACEX 1K DEVICE PROCESS IMPROVEMENT

Altera & TSMC have jointly developed a more efficient process for the ACEX 1K products. The metallization layers on Altera's ACEX 1K devices will be reduced in dimensions so as to accomplish an overall reduction in die size. Since all other key features such as transistor size, power supply voltage, number of metallization layers will remain unchanged, overall performance impact will be minimal. Initial qualification and characterization data will be available on February 24, 2001. The first ACEX 1K device to be manufactured on the new process will be EP1K100.

Effective July 15, 2001, Altera may begin shipping the smaller EP1K100 devices. After July 15, customers may receive devices from either process until transition is completed. As additional devices are moved to the more efficient process, Altera will be providing additional updates.

Devices produced on the enhanced process can be distinguished by the third (β), fifth and sixth ($\alpha\alpha$) characters of the Altera date code which is marked on the top side of the device and the bar code labels on the packing boxes.

Topside Date Code			
A X β Z $\alpha\alpha$ YYWWT			

Device	β	$\alpha\alpha$	Date Code Example
EP1K100	D	83	A X <u>D</u> <u>Z</u> <u>83</u> YYWWT

For additional information regarding the changes described in this document, contact your local Altera sales representative. Contact the Altera Customer Quality Engineering Manager at (408) 544-7563 for more details.