

## CUSTOMER ADVISORY ADV0812

### ADDITIONAL PACKAGE OPTION FOR SELECTED STRATIX® III FPGA DEVICES

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#### Description

Altera will be introducing the Fine-Line BGA F1152 non-OPD (on package decoupling) 8-layer substrate design as an additional package option. The Stratix® III FBGA F1152 package is currently manufactured using an OPD 10-layer substrate. Altera will utilize both package designs for the Stratix III family. The non-OPD 8-layer substrate is being added as a package option for the commercial -4 speed grades only. This product / package combination complies with the data sheet specifications by design. The non-OPD 8-layer option is currently used on other existing Altera products currently in full production and is a qualified package option.

#### Reason for Change

Altera will utilize both substrate options to ensure product availability and to be in a better position to meet long term customer demand.

#### Products Affected

Table 1 lists the affected ordering part numbers.

**Table 1. Products scheduled to ship with the 8-layer substrate option**

Affected Ordering Part Numbers	
<b>Logic Family</b>	EP3SL110F1152C4
	EP3SL110F1152C4N
	EP3SL150F1152C4
	EP3SL150F1152C4N
	EP3SL200F1152C4
	EP3SL200F1152C4N
<b>Enhanced Family</b>	EP3SE80F1152C4
	EP3SE80F1152C4N
	EP3SE110F1152C4
	EP3SE110F1152C4N
	EP3SE260F1152C4
	EP3SE260F1152C4N

## Product Traceability

Altera is scheduled to ship the non-OPD 8-layer version in late August 2008. Customers may begin to receive products manufactured with the non-OPD 8-layer substrate with a date code marking of 0825 or later on the top of the package. See Figure 1. Products listed in Table 1 will migrate to the non-OPD 8-layer substrate as the primary source. Altera may also ship these products using the original OPD 10-layer substrate package.

**Figure 1. Date Code Marking**

Altera Date Code Marking Format
A X $\beta$ Z $\alpha\alpha$ 0825T

Please contact Altera for information on sample availability and device characterization.

## Contact

For more information, please contact your local Altera sales representative or Altera Customer Quality Engineering at [customer-quality@altera.com](mailto:customer-quality@altera.com).

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*In accordance with JESD46-C, this change is deemed acceptable to the customer if no acknowledgement is received within 30 days from this notification.*

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## Revision History

Date	Rev	Description
05/20/2008	1.0.0	Initial Release