



# CUSTOMER ADVISORY

## ADV1832

### Datasheet Update for Arria®V Devices

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#### Change Description:

Intel Programmable Solutions Group (“Intel PSG”, formerly Altera) is notifying customers of a documentation update for Arria V devices. The minimum Data Hold time ( $t_{DH}$ ) timing specification for Active Serial (AS) configuration scheme has been updated.

**Table 1: Minimum  $t_{DH}$  Specification**

Speed Grade	Change From	Change To <sup>1</sup>	
		Arria V GZ Devices	All Other Arria V Devices
-3	0ns	3.7ns	1.7ns
-4	0ns	3.9ns	2.0ns
-5	0ns	N/A	2.6ns
-6	0ns	N/A	3.4ns

Note 1: Applies to Commercial and Industrial grade

The  $t_{DH}$  spec is stipulated in Table 1-68 and Table 2-58 of the datasheet. Please review the revision history for all other updates to the datasheet. The Arria V device datasheet can be found here:

<https://www.intel.com/content/www/us/en/programmable/documentation/sam1421821250281.html>

## Recommended Action:

Customers should review their board design against the updated Arria V minimum  $t_{DH}$  spec, otherwise configuration may fail.

Customers can calculate the hold time required for Active Serial configuration scheme, as mentioned in the 'Evaluating Data Setup and Hold Timing Slack' section of AN822 to evaluate the hold time slack on the board. AN822 can be found here:

<https://www.intel.com/content/dam/www/programmable/us/en/pdfs/literature/an/an822.pdf>

For any additional questions, please contact your local Field Applications Engineer (FAE) or submit a Service Request at the [My Intel](#) support page.

## Products Affected:

All Arria V and Arria V SoC Devices

The list of affected OPNs can be downloaded in Excel form:

<https://www.intel.com/content/dam/www/programmable/us/en/pdfs/literature/pcn/adv1832-opn-list.xlsx>

## Reason for Change:

It is necessary to update the datasheet with the new minimum  $t_{DH}$  spec, as the previous spec was determined to be inaccurate. There is no change to the Arria V product silicon and materials.

## Change Implementation

Table 2

<i>Milestone</i>	<i>Date</i>
Availability of Arria V Datasheet Update	Now

## Contact

For more information, please contact your local Field Applications Engineer (FAE) or submit a Service Request at the [My Intel](#) support page.

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<https://www.intel.com/content/www/us/en/programmable/my-intel/mail-emailsub/technical-updates.html>

## Revision History

Date	Rev	Description
1/25/2019	1.0.0	Initial Release

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