



CUSTOMER ADVISORY

ADV2103

Intel® Arria® 10 Device and Intel® Cyclone® 10 Device Software Updates

Description:

Intel® is notifying customers of important software updates to the Intel® Arria® 10 Devices and Intel® Cyclone® 10 Devices. Refer to table 1 and table 2 for further details and links to KDB articles with recommendations and further actions.

Table 1: Intel® Quartus® Prime Pro Software Fixes

Update Details	Impacted Versions	KDB Article (with patches)
Physical synthesis compiler fix (1) <ul style="list-style-type: none">Seed dependent functional failures in timing clean designs when compiled in impacted versions of the software.Permanent fix implemented in Intel® Quartus® Prime Pro ver 20.2 and above.	Ver. 18.1 Ver 19.1 Ver 19.2 Ver 19.3 Ver 19.4 Ver 20.1	Why are there seed dependent functional failures in a timing clean design when compiled in the Intel® Quartus® Prime Pro Edition software version 20.1 and earlier?
Physical synthesis compiler fix (2) <ul style="list-style-type: none">Seed dependent RAM data corruption when compiled in impacted versions of the software.Permanent fix implemented in Intel Quartus Prime Pro ver 20.2 and above.	Ver 18.1 Ver 19.1 Ver 19.2 Ver 19.3 Ver 19.4 Ver 20.1	Why is there seed dependent RAM data corruption in designs compiled in the Intel® Quartus® Prime Pro version 20.1 and earlier?

Table 2: Intel Quartus Prime Standard Edition Software Fix

Update Details	Impacted Versions	KDB Article (with patches)
<p>Physical synthesis compiler fix (3)</p> <ul style="list-style-type: none"> Seed dependent RAM data corruption when compiled in impacted versions of the software. Permanent fix implemented in Intel Quartus Prime Standard edition software ver 20.1 and above. 	<p>Ver 18.1 Ver 19.1</p>	<p>Why is there seed dependent RAM data corruption in designs compiled in the Intel® Quartus® Prime Standard edition software version 19.1 and earlier?</p>

Products Affected:

All Intel Arria 10 Devices and Intel Cyclone 10 Devices.

The list of affected part numbers (OPNs) can be downloaded in Excel form:

<https://www.intel.com/content/dam/www/programmable/us/en/pdfs/literature/pcn/adv2103-opn-list.xlsx>

Change Implementation:

Patches for all issues in this customer advisory are available now. Refer to the relevant KDB at the links in table 1 and table 2.

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Revision History

Date	Rev	Description
03/05/2021	1.0.0	Initial Release

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Ordering Part No (OPN)	MM#	Family Name
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10CX220YF780E5G	968810	C10GX
10CX220YF780E6G	967744	C10GX
10CX220YF780E6GAA	99AHK5	C10GX
10CX220YF780I5G	973657	C10GX
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