

Arria 10 SoC Virtual Platform Version 1.0 Release Notes

2015.09.04

RN-01081



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This release note describes enhancements and known issues found in the 1.0 version of the Arria® 10 Virtual Platform software.

Related Information

[Arria 10 SoC Virtual Platform User Guide](#)

For more information about the Arria 10 SoC Virtual Platform, refer to this document.

Enhancements to the Arria 10 SoC Virtual Platform Version 1.0

The following functional models are now available in the 1.0 version of the Arria 10 Virtual Platform:

- QSPI
- I²C
- SPI
- USB

Note: The USB controllers have been verified to work with the following USB storage devices:

- PQI Cool Drive 350, up to 2GB
- Apacer 4GB
- Silicon Power 4GB
- Pretec I-Disk 512MB

The following functionality is now available in the 1.0 version of the Arria 10 Virtual Platform:

- Symmetric Multiprocessing (SMP)

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Known Issues of the Arria 10 SoC Virtual Platform Version 1.0

The table below lists the known issues for the Arria 10 SoC Virtual Platform 1.0 Release.

Table 1: Known Issues for Arria 10 SoC Virtual Platform 1.0 Release

| Date | Issue |
|------------|--|
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Limitations with USB Functionality

Description

The current USB 2.0 OTG controller model that exists in the Arria 10 SoC Virtual Platform has the following limitations:

- USB 2.0 OTG Controllers do not support all USB storage devices.
- The New Technology File System (NTFS) partition is read-only.
- The Arria 10 SoC Virtual Platform enters an exception when unmounting the EXT3 partition from the USB controller.
- USB Hub is not supported.
- The USB 2.0 OTG controllers cannot receive events from USB human interface devices (HID).

Workaround

The workarounds available are as follows:

Table 2: Arria 10 SoC Virtual Platform Workarounds for USB 2.0 OTG

| Issue | Workaround |
|---|---|
| USB 2.0 OTG Controllers do not support all USB storage devices. | The following USB storage devices are supported with the corresponding memory limitations: <ul style="list-style-type: none">• pqi Cool Drive 350, up to 2GB• Apacer 4GB• Silicon Power 4GB• Pretec I-Disk 512MB |
| The New Technology File System (NTFS) partition is read-only. | Use the FAT32 or EXT3 file systems for read/write operations. |
| The Arria 10 SoC Virtual Platform enters an exception when unmounting the EXT3 partition from the USB controller. | The virtual platform must be restarted after unmounting the EXT3 partition. |
| USB Hub is not supported. | No workaround. |
| The USB 2.0 OTG controllers cannot receive events from USB human interface devices (HID). | No workaround. |

Status

Fix Pending.

Document Revision History

| Date | Version | Changes |
|----------------|------------|-----------------|
| September 2015 | 2015.09.04 | Initial release |