

This document addresses known errata and documentation issues for the PCI Express Compiler version 7.1. Errata are functional defects or errors, which may cause the PCI Express Compiler to deviate from published specifications. Documentation issues include errors, unclear descriptions, or omissions from current published specifications or product documents.



For the most up-to-date errata for this release, refer to the [PCI Express Compiler v7.1 Errata Sheet](#) on the Altera® website.

## PCI Express Compiler v7.1 Issues

Altera has identified the following issue that affects the PCI Express Compiler v7.1.

### **Stratix GX Devices Not Detected by Some PCI Express Devices**

Some PCI Express devices cannot detect the Stratix® GX receiver during the PCI Express receiver detection sequence. In this case the other device remains in the LTSSM Detect state and the Stratix GX device remains in the Compliance state, which prevents the link from being initialized. This occurs because Stratix GX devices do not exhibit the correct receiver impedance characteristics when the receiver input is at electrical idle. Stratix GX devices were designed before the PCI Express specification was developed. Although the Arria™ GX and Stratix II GX devices were designed to meet the PCI Express protocol and do not have this issue, Arria GX and Stratix II GX are examples of the PCI Express devices that are unable to detect Stratix GX.

#### *Affected Configurations*

This issue affects all Stratix GX PCI Express designs.

#### *Design Impact*

Stratix GX does not interoperate with some PCI Express devices.

*Workaround*

Although there is no workaround that can fix this issue, you can migrate your Stratix GX PCI Express design to use an Arria GX or Stratix II GX device.

*Solution Status*

This issue cannot be fixed because the device was designed before the PCI Express specifications were available. However, you can migrate your Stratix GX design to a Stratix II GX device.

**Contact Information**

For more information, contact Altera's mySupport website at [www.altera.com/mysupport](http://www.altera.com/mysupport) and click **Create New Service Request**. Choose the **Product Related Request** form.

**Revision History**

Table 1 shows the revision history for the *PCI Express Compiler v7.1 Errata Sheet*.

<b>Version</b>	<b>Date</b>	<b>Errata Summary</b>
1.0	May 2007	The following issue exists: <b>Stratix GX Devices Not Detected by Some PCI Express Devices</b>



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