

These release notes for the HyperTransport MegaCore function version 1.4.0 contain the following information:

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## System Requirements

To use the HyperTransport MegaCore function version 1.4.0, the following system requirements exist:

- A computer running any of the following operating systems:
  - Windows 2000/XP
  - Red Hat Linux 8.0
  - Red Hat Enterprise Linux 3 WS (with support for 32-bit, AMD64, or Intel EM64T workstations)
  - Solaris 8 or 9 (32-bit or 64-bit)
- Quartus® II software version 5.1 or higher
- Adobe Reader version 5.0 or higher, for viewing PDF documentation

## New Features & Enhancements

The following list outlines new features and enhancements in this release:

- Preliminary support for Stratix® II GX

## Errata Fixed in This Release

The clock setup timing analysis issue that affects configurations targeting Stratix® II devices and having the **Shared Ref/Tx Clock** option selected, has been fixed by in the *HyperTransport MegaCore Function User Guide* by informing you how to set Quartus II parameters. This issue was first reported in Hypertransport Megacore function version 1.3.1. You can review the details of this errata by looking at the errata sheet on the Altera web site at [www.altera.com/literature/ds/es\\_hypertransport\\_v1.3.1.pdf](http://www.altera.com/literature/ds/es_hypertransport_v1.3.1.pdf).



For existing up-to-date errata, refer to the HyperTransport MegaCore function version 1.4.0 errata sheet on the errata page of the Altera web site at [www.altera.com/literature/es/es\\_hypertransport\\_140.pdf](http://www.altera.com/literature/es/es_hypertransport_140.pdf).

## Obtain & Install HyperTransport MegaCore Function Version 1.4.0

Before you can use the HyperTransport MegaCore function, you must obtain the files and install them on your computer. Altera MegaCore functions can be installed from the MegaCore IP Library CD-ROM during or after Quartus II installation, or downloaded individually from the Altera web site and installed separately.



The following instructions describe downloading and installing the HyperTransport MegaCore function. If you already have installed the HyperTransport MegaCore function from the MegaCore IP Library CD-ROM, skip to [“Directory Structure” on page 4](#).

### Download the HyperTransport MegaCore Function

If you have Internet access, you can download the HyperTransport MegaCore function from Altera’s web site at [www.altera.com](http://www.altera.com). Follow the instructions below to obtain the HyperTransport MegaCore function from the Internet. If you do not have Internet access, contact your local Altera representative to obtain the MegaCore IP Library CD-ROM.

1. Point your web browser to [www.altera.com/ipmegastore](http://www.altera.com/ipmegastore).
2. Type **HyperTransport MegaCore function** in the IP MegaSearch box.
3. Click **Go**.
4. Choose **HyperTransport MegaCore function** from the search results page. The product description web page displays.
5. Click **Download Free Evaluation** on the top right of the product description web page. Fill out the registration form and click **Submit Request**.
6. Read the Altera MegaCore license agreement. Turn on the **I have read the license agreement** check box and click **Proceed to Download Page**.
7. Follow the instructions on the HyperTransport MegaCore function download and installation page to download the **HyperTransport MegaCore function** and save it to your hard disk.



Ensure you download the MegaCore function for the operating system on which the MegaCore function will be running.

## Install HyperTransport MegaCore Function Files

The following instructions describe how you install the HyperTransport MegaCore function on computers running the Windows, Linux, and Solaris operating systems.

### *Windows*

Follow these steps to install the HyperTransport MegaCore function on a computer running a supported version of the Windows operating system:

1. Choose **Run** (Windows Start menu).
2. Type `<path name>\ht-v1.4.0.exe`, where `<path name>` is the location of the downloaded MegaCore function.
3. Click **OK**. The **HyperTransport MegaCore function** Installation dialog box appears. Follow the on-screen instructions to finish installation.

### *Linux & Solaris*

Follow these steps to install the **HyperTransport MegaCore function** on a computer running supported versions of the Linux and Solaris operating systems:

1. Move the compressed files to the desired installation directory and make that directory your current directory.
2. Decompress the package by typing the following command:

```
gzip -d ht-v1.4.0_linux.tar.gz ↵
```

or

```
gzip -d ht-v1.4.0_solaris.tar.gz ↵
```

3. Extract the package by typing the following command:

```
tar xvf ht-v1.4.0_linux.tar ↵
```

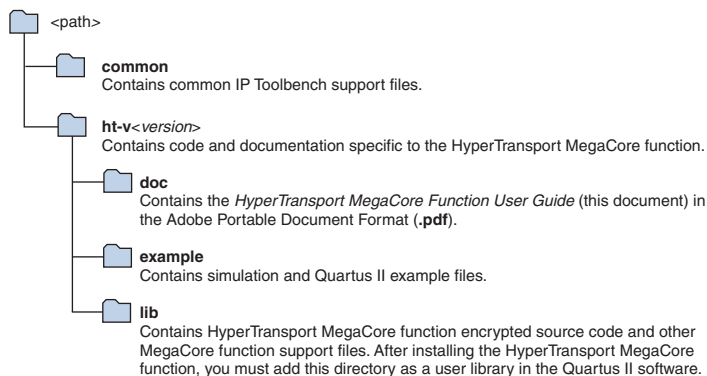
or

```
tar xvf ht-v1.4.0_solaris.tar ↵
```

## Directory Structure

Figure 1 shows the directory structure after you install the HyperTransport MegaCore function, where *<path>* is the installation directory.

**Figure 1. Directory Structure**



## Contact Altera

Although every effort has been made to ensure that this version of the HyperTransport MegaCore function works correctly, if problems occur, use the following contact information to communicate issues to the appropriate Altera representative.

For technical support or other information about Altera products, go to the Altera web site at [www.altera.com](http://www.altera.com). You can also contact Altera through your local sales representative or any of the sources listed in Table 1.

<b>Table 1. Contacting Altera (Part 1 of 2)</b>		
<b>Information Type</b>	<b>USA &amp; Canada</b>	<b>All Other Locations</b>
Technical support	<a href="http://www.altera.com/mysupport/">www.altera.com/mysupport/</a>	<a href="http://www.altera.com/mysupport/">www.altera.com/mysupport/</a>
	800-800-EPLD (3753) 7:00 a.m. to 5:00 p.m. Pacific Time	+1 408-544-8767 7:00 a.m. to 5:00 p.m. (GMT -8:00) Pacific Time
Product literature	<a href="http://www.altera.com">www.altera.com</a>	<a href="http://www.altera.com">www.altera.com</a>
Altera literature services	<a href="mailto:literature@altera.com">literature@altera.com</a>	<a href="mailto:literature@altera.com">literature@altera.com</a>

**Table 1. Contacting Altera (Part 2 of 2)**

Information Type	USA & Canada	All Other Locations
Non-technical customer service	800-767-3753	+ 1 408-544-7000 7:00 a.m. to 5:00 p.m. (GMT -8:00) Pacific Time
FTP site	<a href="ftp.altera.com">ftp.altera.com</a>	<a href="ftp.altera.com">ftp.altera.com</a>

## Revision History

Table 2 shows the revision history for the HyperTransport MegaCore function version 1.4.0.

**Table 2. HyperTransport MegaCore Function Revision History**

Version	Date	Revision
1.4.0	October 2005	<ul style="list-style-type: none"> <li>• Support for Stratix II GX</li> </ul>
1.3.2	December 2004	<ul style="list-style-type: none"> <li>• Addition of I/O Space BAR capability</li> <li>• Addition of ability to claim requests with the Compat bit set</li> </ul>
1.3.1	February 2004	<ul style="list-style-type: none"> <li>• Addition of the new inputs RxPllAreset_i and TxPllAreset_i</li> <li>• Fix for Available Buffer Credit tracking issue</li> <li>• Fix for HT link initialization issue when the incoming sync phase (when CAD and CTL are all 1) of the initialization sequence was at the minimum of 16 bit times</li> <li>• Change to remove Quartus fitter warnings about inputs to the altlvds_tx</li> <li>• SERDES input</li> </ul>
1.3.0	February 2004	<ul style="list-style-type: none"> <li>• Preliminary support for the Stratix II device family. This included adding a new parameter, intended_device_family, for ht_e8. The intended_device_family parameter must match the device_family targeted by the design.</li> <li>• Support for HyperTransport clock frequencies of 500 MHz (1.0 Gbps per bit data rate) in Stratix II.</li> <li>• Support for IP Functional Simulation Models.</li> <li>• Support for OpenCore® Plus hardware evaluation.</li> </ul>



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[www.altera.com](http://www.altera.com)  
**Applications Hotline:**  
(800) 800-EPLD  
**Literature Services:**  
[literature@altera.com](mailto:literature@altera.com)

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