

These release notes for the QDRII SRAM Controller MegaCore® function version 1.3.0 contain the following information:

- System Requirements
- New Features & Enhancements
- Errata Fixed in This Release
- Obtain & Install the QDRII SRAM Controller
- Contact Altera
- Revision History

System Requirements

To use the QDRII SRAM Controller MegaCore function v1.3.0, the following system requirements exist:

- A computer running any of the following operating systems:
 - Windows 2000/XP
 - Red Hat Enterprise Linux 3 or 4 WS (with support for 32-bit , AMD64, or Intel EM64T workstations)
 - Solaris 8 or 9 (32-bit or 64-bit)
- Quartus® II software version 6.0 or higher
- Adobe Reader version 5.0 or higher, for viewing PDF documentation
- Mozilla Firefox 1.0 or higher on computers running the RedHat Linux or Solaris operating systems for following web links

New Features & Enhancements

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

- Full support for Stratix® II devices
- Operates at 300 MHz for QDRII and QDRII+ SRAM
- Support for QDRII+ SRAM
- Added floorplan files for some Stratix II GX devices
- Support for latency of 2.0 and 2.5 cycles

Errata Fixed in This Release

No errata were fixed in this release.



For existing up-to-date errata, refer to the *QDRII SRAM Controller MegaCore Function v1.3.0 Errata Sheet* at www.altera.com/literature/es/es_qdrii_sram_130.pdf.

Obtain & Install the QDRII SRAM Controller

Before you can start using Altera® MegaCore functions, you must obtain the MegaCore 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.

Download the QDRII SRAM Controller MegaCore Function

If you have Internet access, you can download MegaCore functions from Altera's web site at www.altera.com. Follow the instructions below to obtain the QDRII SRAM Controller 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.
2. Type QDR in the **IP MegaSearch** box.
3. Click **Go**.
4. Choose **QDRII SRAM Controller** 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.
6. Fill out the registration form and click **Submit Request**.
7. Read the Altera MegaCore license agreement, turn on the **I have read the license agreement** check box, and click **Proceed to Download Page**.
8. Follow the instructions on the QDRII SRAM Controller download and installation page to download the 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 the QDRII SRAM Controller MegaCore Function Files

The following instructions describe how to install the QDRII SRAM Controller on computers running the Windows, Linux, or Solaris operating systems.

Windows

Follow these steps to install the QDRII SRAM Controller on a computer running a supported version of the Windows operating system:

1. Choose **Run** (Windows Start menu).
2. Type `<path name>\qdrii_sram_controller-v1.3.0.exe`, where `<path name>` is the location of the downloaded MegaCore function.
3. Click **OK**. The **QDRII SRAM Controller Installation** dialog box appears. Follow the on-screen instructions to finish installation.

Solaris & Linux

Follow these steps to install the QDRII SRAM Controller on a computer running supported versions of the Solaris and Linux 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 qdrii_sram_controller-v1.3.0_linux.tar.gz
```

or

```
gzip -d qdrii_sram_controller-  
v1.3.0_solaris.tar.gz
```

3. Extract the package by typing the following command:

```
tar xvf qdrii_sram_controller-v1.3.0_linux.tar
```

or

```
tar xvf qdrii_sram_controller-v1.3.0_solaris.tar
```

Contact Altera

Although every effort has been made to ensure that this version of the QDRII SRAM Controller 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 world-wide website at www.altera.com. You can also contact Altera through your local sales representative or any of the sources listed in [Table 1](#).

Table 1. Contacting Altera		
Information Type	USA & Canada	All Other Locations
Technical support	www.altera.com/mysupport/	www.altera.com/mysupport/
	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	www.altera.com	www.altera.com
Altera literature services	literature@altera.com	literature@altera.com
Nontechnical 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	ftp.altera.com	ftp.altera.com

Revision History

[Table 2](#) shows the revision history for the QDRII SRAM Controller MegaCore function.

Table 2. QDRII SRAM Controller MegaCore Function Revision History		
Version	Date	Revision
1.3.0	April 2006	<ul style="list-style-type: none"> • Support for Stratix GX devices • Support for Stratix II GX devices • Support for HardCopy® II devices
1.2.0	October 2005	See “New Features & Enhancements” on page 1 .
1.1.0	–	<ul style="list-style-type: none"> • Support for Stratix II data strobe (DQS) and non-DQS modes • Resynchronization of read data onto the system clock • Avalon® interface for read and write ports • Support for multiple devices • Support for clamshell memories (deeper memories)
1.0.0	–	Initial release.



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