

These release notes for the Altera® NCO MegaCore® function, v7.1 contain the following information:

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System Requirements

The NCO MegaCore function is part of the MegaCore® IP library which is distributed with the Quartus II software.



For system requirements and install instructions, refer to the *Quartus II Installation & Licensing for Windows* manual or the *Quartus II Installation & Licensing for UNIX and Linux* manual on the *Altera Literature website*.

New Features & Enhancements

The NCO MegaCore function implements a numerically controlled oscillator MegaCore function.

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

- Added 32-bit precision for angle & magnitude
- Added Arria™ GX support

Errata Fixed in This Release

The following errata is fixed in this release:

- The valid signal was incorrect for serial CORDIC architectures.

Known errata for the NCO MegaCore function are listed in a separate errata sheet.



For existing up-to-date errata, refer to the *NCO MegaCore Function, v7.1 Errata Sheet* on the *Errata Sheets* page of the Altera literature website.

How to Contact Altera

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

Information Type	Contact <i>Note (1)</i>
Technical support	www.altera.com/mysupport/
Product literature	www.altera.com
Altera literature services	literature@altera.com
FTP site	ftp.altera.com

Note to Table 1

(1) You can also contact your local Altera sales office or sales representative.

Revision History

Table 2 shows the revision history for the NCO MegaCore Function.

Version	Date	Revision
7.1	May 2007	<ul style="list-style-type: none"> Added support for 32-bit precision for angle & magnitude. Added Arria™ GX device support.
7.0	December 2006	<ul style="list-style-type: none"> Added Cyclone® III device support.
6.1	December 2006	<ul style="list-style-type: none"> Added Stratix® III device support. Added support for Avalon® Streaming interfaces.
2.3.1	April 2006	<ul style="list-style-type: none"> Maintenance release; updated screen shots and format in user guide.
2.3.0	October 2005	<ul style="list-style-type: none"> Added Stratix II GX and HardCopy II device support. Fixed minor bugs.
2.1.0	February 2004	<ul style="list-style-type: none"> Added Stratix II device support. Added IP Toolbench interface. Added IP functional simulation models for use in Altera®-supported VHDL and Verilog HDL simulators. Added support for Solaris and Linux operating systems.
2.0.2	November 2002	<ul style="list-style-type: none"> Maintenance release; updated screen shots in user guide.
2.0.1	July 2002	<ul style="list-style-type: none"> The NCO MegaCore function now displays a single DSP Builder library for OpenCore and OpenCore Plus in the Simulink Library Browser.
2.0.0	May 2002	<ul style="list-style-type: none"> Updated functional description and added DSP Builder, OpenCore Plus, and licensing information to user guide. Replaced reference designs with example designs.
1.0	April 2000	<ul style="list-style-type: none"> Version 1.0 of the NCO MegaCore function.



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