I²C Controller IP Core Setup

Installation Guide



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IP Core Version:3.0Document Version:1.0Document Date:May 2015

http://www.slscorp.com





Introduction

This installation guide familiarizes you with the contents of the I^2C Controller IP Core setup.

Table below shows the revision history of the installation guide.

Version	Date	Description
1.0	May 2015	First release

How to Contact SLS

For the most up-to-date information about SLS products, go to the SLS worldwide website at http://www.slscorp.com. For additional information about SLS products, consult the source shown below.

Information Type	E-mail
Product literature services, SLS literature services, Non-technical customer services, Technical support.	support@slscorp.com



Contents

Introduction	ii
How to Contact SLS	ii
Software Installation	
Installing I2C Controller IP Core	
Step1: Preparing to Install	1
Step2: Welcome to the SLS I2C Controller IP Installation Wizard	1
Step3: License Agreement	2
Step4: Choosing Destination Location	
Step5: Start Copying the Program Files	
Step5: License Information	4
Step6: Finish Installation	4
Step7: SLS I2C Controller ReadMe	



Software Installation

This Installation Steps guides the user through the installation process of SLS I^2C Controller IP Core.

We assume that following software are installed on your pc.

- Windows 2000, XP
- Quartus II 8.1, Nios II EDS 8.1

The I²C Controller IP Core is provided as a setup for using it in various designs. Following steps shows the installation procedure for the IP Core setup file on your system.

Step1: Preparing to Install

Double click on the **i²c_cntrlr_ocp_eval-v**<*IP Core Setup version#*>.exe file. It displays the message as shown in Figure- 1.

Figure -1. Install SLS PC Controller



Step2: Welcome to the SLS I²C Controller IP Installation Wizard

Then the next window appears showing the message, 'Welcome to the SLS i²c_cntrlr_ocp_eval-v<*IP Core Setup version#>* Installshield Wizard' appears as shown in Figure- 2. There are three options available, 'Back', 'Next' and 'Cancel'. Choose the correct option as per the requirement.

1. Choose 'Back' to go to previous window.

Installing I²C Controller IP Core

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- 2. Choose 'Next' to continue the installation.
- **3.** Choose '**Cancel**' to end the setup for installation. Selecting this option pops up a message window having options, '**Yes**' and '**No**'.
 - To continue the installation choose 'No'.
 - To exit setup choose 'Yes'.



Step3: License Agreement

The setup shows a "License Agreement" window. Accept the agreement in order to continue with setup. Select "I accept the terms of license agreement" option after reading the License terms as shown in Figure- 3.

Figure -3. License Agreement



2

Step4: Choosing Destination Location

The "**Choose Destination Location**" window appears asking the installation directory for I²C Controller IP Core. See Figure- 4. For installing to a different folder, click "**Browse**" button. Choose '**Next**' to continue the setup.

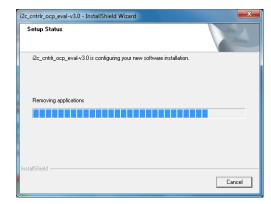
Figure -4. Choose Destination Location

Choose Destination Locatio	
Select folder where setup will in	nstall files.
Setup will install i2c_cntrlr_ocp	_eval-v3.0 in the following folder.
To install to this folder, click Ne another folder.	ext. To install to a different folder, click Browse and select
Destination Folder	
- Destination Folder	Browse
	Browse

Step5: Start Copying the Program Files

It starts copying the IP Core files to the directory selected. See Figure- 5.

Figure -5. Setup Status



Step5: License Information

After copying the files, the "**License Information**" window explaining the steps to request the license for IP Core. See Figure- 6. Choose '**Next**' to go to finish window.

Figure -6. License Information

As you have downloaded 12C Controller Eval package you have to use eval license for compilation in Quartur II software. To get eval license log on to www.slscorp.com and go to licensing section and mention the NIC number of the PC for which you want to have the license. Please follow the following steps to get the NIC number: Open up Command Prompt. To per "pconfig/alf". The Physical Address will give you 12 digit no, which	icense Information	
eval license for compilation in Quartus II software. To get eval license log on to www.slicop.com and go to licensing section and mention the NIC number of the PC for which you want to have the license. Please follow the following steps to get the NIC number: . Open up Command Prompt. . Type "pconfig/alf". . The Physical Address will give you 12 digit no, which	Please read the License information Carefully	
	eval license for compilation in Quartus II softwar To get eval license log on to www.slccorp.com the NIC number of the PC for which you want to Please follow the following steps to get the NIC - Open up Command Prompt. - Type "gocning/all".	e

Step6: Finish Installation

As the installation completes, last window will appear as shown in Figure-7. Choose '**Finish**' to exit from the installation window.



4

Step7: SLS I²C Controller ReadMe

After successful installation of the SLS I²C Controller IP Core, it opens the ReadMe file. See Figure- 8.



Home	I2C Controller ReadMe
Directory Structure & Contents	This readme file contains following information:
Reference Designs	Directory Structure and Contents
Documents	<u>Reference Desian</u> <u>Documents</u>
License	License
Release Notes	Release Notes Contact us
Contact us	Notes:
	 If you are using Evaluation package of the core, open component.mk file from -(12C Controller Installation Path>\hardware\component\HAL\src.wite driver.obj file path, for e.g. <12C Controller Installation Path>\hardware\component\HAL\src.yis_avalon_i2c_coin this file. The IP Core set up will work as documented for Quartus II software version 8.1 and above. The IP Core, if not installed in the directory same as Quartus II installation directory, the IP Core component path will have to be given manually in SOPC Builder.
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To verify the proper installation of I^2C Controller IP core, make sure that the installed IP Core directory structure is same as the directory structure specified in the ReadMe file.

Table 1 lists I²C Controller IP Core installation directory content and their description. The default Windows installation directory is **c:\sls**.

Table 1. Installed Directo	le 1. Installed Directory Contents	
Directory Name	Description of Contents	
documents	Contains technical documents such as User Guide, Tutorial, and HAL API User Guide for the I ² C Controller IP Core and readme help files.	
embedded	Contains sample source code for applications with Nios II.	

Table 1. Installed Direct	Table 1. Installed Directory Contents	
Directory Name	Description of Contents	
example	Contains example for using I ² C Controller which includes Nios II source applications such as sls_i2c_rtc_test, sls_i2c_cntrlr_test and sls_i2c_cntrlr_sim_test	
hardware	Contains encrypted I ² C Controller IP Core design files and ready to use reference designs and HAL driver for the core.	
component	Contains encrypted I ² C Controller IP Core design files.	
ref_design	Contains ready to use reference designs for UP3 1C6 kit (Cyclone).	
simulation	Contains simulation library files and .VO file required for simulation.	