

USB20HUB IP Core Setup

Installation Guide



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Introduction

This installation guide familiarizes you with the contents of the USB20HUB 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

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Installing USB20HUB IP Core

This Installation Steps guides the user through the installation process of SLS USB20HUB IP Core.



We assume that following software are installed on your pc.

- Windows XP, 7, 8
- Quartus II 13.0 SPI, Nios II EDS 13.0 SPI

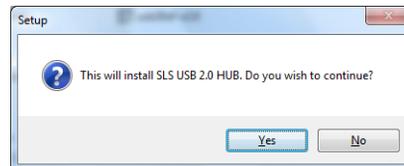
The USB20HUB IP Core is provided as a setup for using it in various designs. Following steps shows the installation procedure for the IP Core setup file on your system.

Step1: Preparing to Install

Double click on the **usb20hub-v<IP Core Setup version #>.exe** file. It displays the message as shown in [Figure- 1](#).

- Choose '**Yes**' to continue the installation. See [Figure- 2](#).
- Choose '**No**' to exit setup.

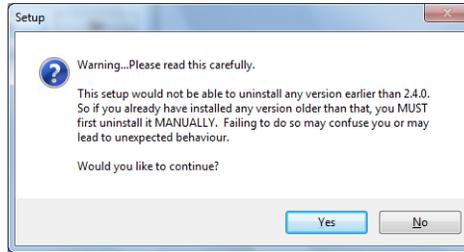
Figure -1. Install SLS USB20HUB



It will give user a respective message in order to continue with setup.

- Choose '**Yes**' to continue the installation. See [Figure- 3](#).
- Choose '**No**' to exit setup.

Figure -2. Warning Dialog Box

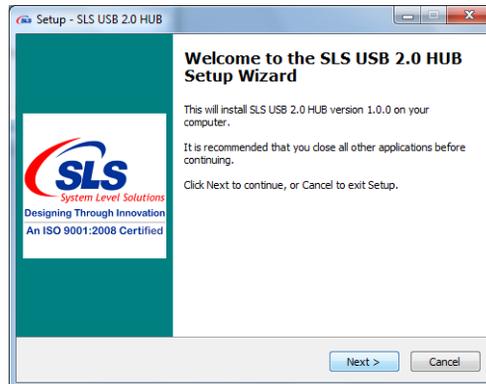


Step2: Welcome to the SLS USB20HUB IP Installation Wizard

On continuing the installation, '**Welcome to the SLS USB 2.0 HUB Installshield Wizard**' appears as shown in Figure- 3. There are two options available, '**Next**' and '**Cancel**'. Choose the correct option as per the requirement.

1. Choose '**Next**' to continue the installation.
2. 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**'.

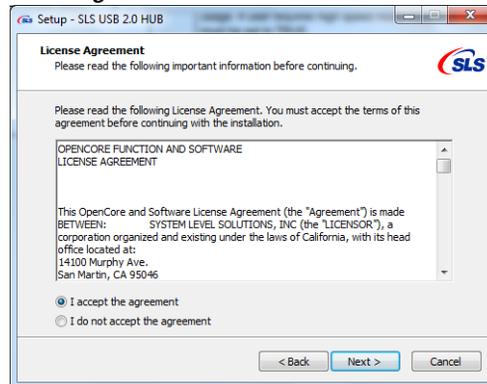
Figure -3. Welcome SLS USB 2.0 HUB Setup Wizard



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- 4](#).

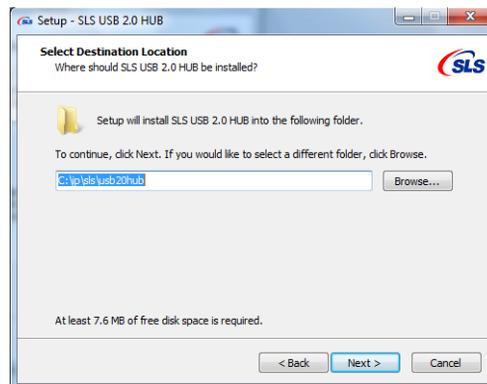
Figure -4. License Agreement



Step4: Choosing Destination Location

The “**Choose Destination Location**” window appears asking to select the USB20HUB IP Core installation path as shown in [Figure- 5](#). For installing to a different folder, click “**Browse**” button. Choose ‘**Next**’ to continue the setup.

Figure -5. Choose Destination Location

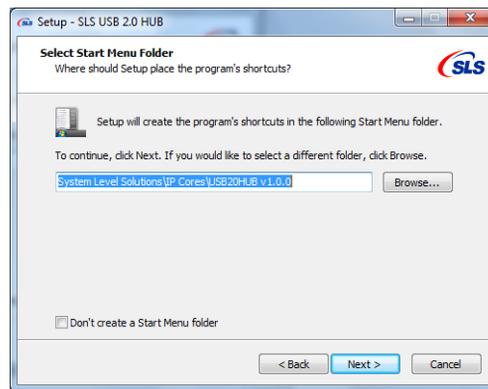


Step5: Select Start Menu Folder

The “**Select Start Menu Folder**” window appears to select the path for programs shortcuts in Start Menu folder. Click “**Browse**” to change the path else click “**Next**” to continue the installation. See [Figure- 6](#).

- Choose ‘**Back**’ to go to previous window.
- Choose ‘**Next**’ display current settings. See [Figure- 7](#).
- Choose ‘**Cancel**’ to exit setup.

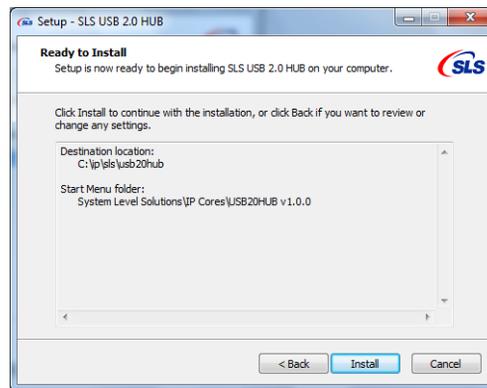
Figure -6. Select Start Menu Folder



Step6: Ready to Install

The “**Ready to Install**” window displays the summary of the path selected for IP Core installation and program menu shortcuts. Choose “**Install**” to continue the installation. See [Figure- 7](#).

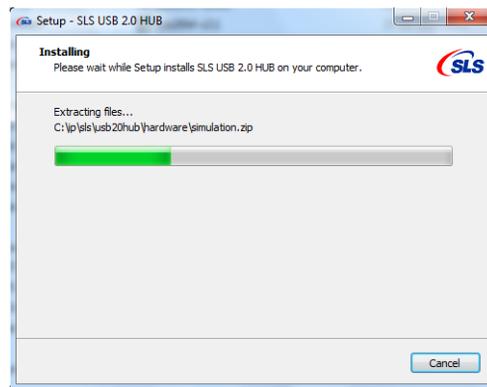
Figure -7. Ready to Install



Step7: Start Copying the Program Files

The “**Installing**” window shows the progress of the copying files in the destination folder. See [Figure- 8](#).

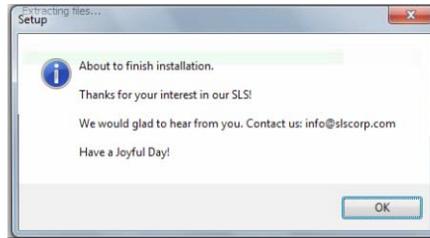
Figure -8. Setup Status



Step8: Finish Installation

As the installation completes, message dialog box will appear as shown in [Figure- 9](#). Choose ‘**OK**’ to finish installation window as shown in [Figure- 10](#).

Figure -9. About to Finish Installation



Check “**View readme.htm**” option and click on ‘**Finish**’ to exit the setup.

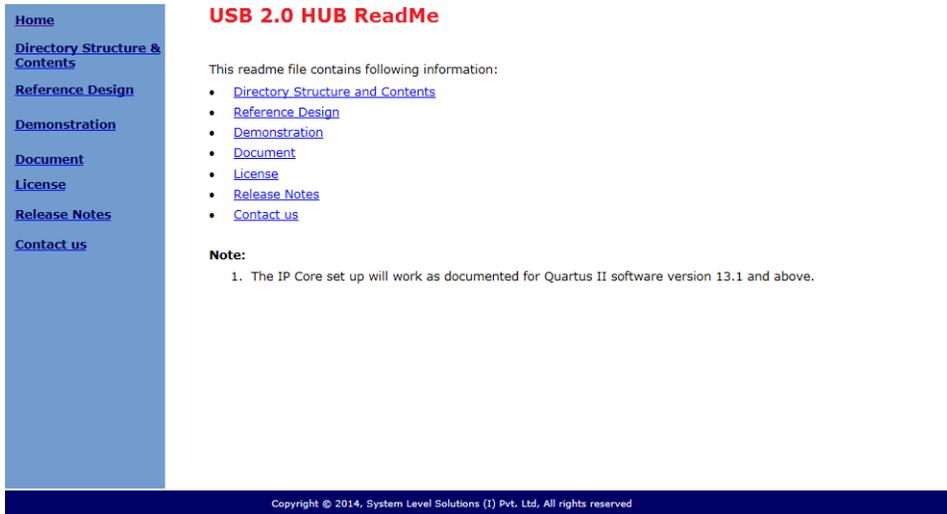
Figure -10. Installshield Wizard Complete



Step9: SLS USB20HUB ReadMe

After successful installation of the SLS USB20HUB IP Core, it opens the ReadMe file. See [Figure- 11](#).

Figure 11. SLS USB20HUB IP Core After Installation



USB 2.0 HUB ReadMe

This readme file contains following information:

- [Directory Structure and Contents](#)
- [Reference Design](#)
- [Demonstration](#)
- [Document](#)
- [License](#)
- [Release Notes](#)
- [Contact us](#)

Note:

1. The IP Core set up will work as documented for Quartus II software version 13.1 and above.

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To verify the proper installation of USB20HUB 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 USB20HUB IP Core installation directory content and their description. The default Windows installation directory is **c:\sls**.

Table 1. Installed Directory Contents

Directory Name	Description of Contents
documents	Contains USB20HUB User Guide and readme help files.
hardware	Contains encrypted USB20HUB IP Core design files, demonstrations files using the core, ready to use reference designs for the core.
component	Contains sub folder which contains encrypted USB2.0 HUB IP Core design files.
demo	Contains demonstrations which includes usb_hub_2_ports.
ref_design	Contains ready to use reference designs for USB20HUB IP core. Qsys reference design for SLS CoreCommander Board (3C25 rev2a).

Table 1. Installed Directory Contents

Directory Name	Description of Contents
simulation.zip	 This compressed folder contains simulation environment. You need to unzip this. Contains files for simulation which includes simulation libraries, simulation settings, tcl_source and test benches.
startup.bat	Batch file to run the simulation.
readme.txt	Contains steps for simulation.