NXP Semiconductors User Guide Document Number: S32KSDKISELEDRTMUG

Rev. 1, 09/2019

S32K SDK ISELED BETA 3.9.0 Driver Installation Guide



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1. Introduction

This user guide describes in detail the steps to install the necessary components to build the customer application using the NXP S32K SDK ISELED BETA 3.9.0 driver.

The S32 Software Development Kit (S32 SDK) is part of the S32 Design Studio (S32DS), representing the tool suite for developing of user applications for NXP Automotive and Ultra-Reliable microcontrollers. S32K SDK ISELED driver is not integrated as part of standard S32SDK installation, thus a few steps need to be done to download and integrate the S32SDK ISELED driver into the application.

The 3 software packages that need to be installed are: S32 Design Studio, S32 SDK and SDK ISELED Driver.

2. Downloading the S32 Design Studio IDE

The S32 Design Studio IDE is a complimentary integrated development environment for Automotive and Ultra-Reliable Arm based MCUs that enables editing, compiling and debugging of applications. Based on, open-source software including Eclipse IDE, GNU Compiler Collection (GCC) and GNU Debugger (GDB), the S32 Design Studio IDE offers designers a straightforward development tool with no code-size limitations. NXP software, along with the S32 Design Studio IDE provide a comprehensive enablement environment that reduces development time.

NOTE

Despite this document might refer to particular revision of NXP SW, it is highly recommended to use the latest available versions of the SW. Those versions might not be listed in the screenshots presented in this document at the time of creation.

The screenshots are example screenshot from RTM 3.0.0 release

In order to download the S32 Design Studio IDE, please follow these steps:

- 1. Visit the <u>www.nxp.com/S32K-ISELED</u>
- 2. Click <u>Get Started</u> Tab and Choose Evaluation Path for Non-AUTOSAR

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Get Started wit	h the S32K-ISELED	
Jump To 1. Evaluation path 2. Production path www.starter.star	Evaluation path	Follow these steps if you are using AUTOSAR (for EVALUATION)

3. Download Design Studio for ARM 2018.R1 (or newer) for ARM® based MCUs:

2. Download the S32 SDK ISELED driver Installation Guide

The step-by-step guide to integrate the S32 SDK ISELED driver into the S32 Design Studio.

Constant Size SDK ISELED driver Installation Guide

Alternatively, download link could also be found via <u>www.nxp.com/S32K-ISELED</u> Documents and Software Tab.

Overview	Specifications	Buy	Documents and Software	Get started
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Embe	edded Software (3)		Development Software (1)	
Embe Softw	edded Application vare (4)		IDE and Build Tools (1)	
			S32 Design Studio IDE for Arm [®] based MCUs	Download Options
			The S32 Design Studio is a tool suite for developing your applications for NXP Automotive and Ultra-Reliable Microcontrollers.	

4. To proceed with the download, the user needs to be logged-in using the user account. In case of new user, please proceed with the Register Now option prior logging into the NXP web page.

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5. Download the installation package of S32 Design Studio by selecting appropriate version, based on the operation system on your PC. After download, follow the instruction of the Installation shield to proceed.

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6. During the installation of the S32 Design Studio IDE, an Activation code and the license file need to be stored on your computer.

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Downloading the S32 Design Studio IDE

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After successfully installing S32 Design Studio it's necessary to update the S32 Software Development Kit (S32SDK), which comes pre-installed with the S32 Design Studio. To proceed, please follow the instructions in next chapter.

NOTE

If you already have the S32 Design Studio installed on your computer, please make sure you update your installation, prior proceeding to next chapter.



3. Updating the S32 Software Development Kit

The S32 Software Development Kit (S32 SDK) is an extensive suite of robust hardware interface and hardware abstraction layers, peripheral drivers, RTOS, stacks, and middleware designed to simplify and accelerate application development on NXP S32K microcontrollers. As the S32K SDK ISELED driver was tested with S32K SDK RTM 3.0.0, the following steps need to be proceed in order to update to S32K SDK RTM 3.0.0:

- 1. Run the S32K Design studio
- 2. Select Help->Install New Software

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4. Click on Select All and then on Next

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The list of available packages may differ as new support is added. Please select all S32SDK S32K1xx RTM_3.0.0 related packages in the list above.

6. Accept the license agreement and click on Finish

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▶ LA_OPT_BASE_LICENSE v18 February 2017 ▶ LA_OPT_TOOL Software Tools v10 February 2017	LA_OPT_BASE_LICENSE v18 February 2017 IMPORTANT. Read the following NXP Software License Agreement (Agreement) completely. By selecting the I Accept button at the end of this page, you indicate that you accept the terms of the Agreement and you acknowledge that you have the authority, for yourself or on behalf of your company, to bind your company to these terms. You may then download or install the file. NXP SOFTWARE LICENSE AGREEMENT This is a legal agreement between you, as an authorized representative of your employer, or if you have no employer, as an individual (together you), and NXP B.V. (NXP). It concerns your rights to use the software identified in the Software Content Register and provided to you in binary or source code form and any accompanying written materials (the Licensed Software). The Licensed Software may include any updates or error corrections or documentation relating to the Licensed Software provided to you by NXP under this License. In consideration for NXP allowing you to access the Licensed Software, you are agreeing to be bound by the terms of this Agreement. If you do not agree to all of the terms of this Agreement, do not download or install the Licensed Software and delete all copies of the Licensed Software that you have and delete all copies of the Licensed Software that you have a laready distributed,
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7. Wait for installation finish. Once the updates are installed, please proceed to the next stage, download and installation of the S32K SDK ISELED driver, described in next section.

4. Installation of S32K SDK ISELED driver

The S32K SDK ISELED driver BETA 3.9.0 provides the user with necessary API to initialize and drive the ISELED LEDs. It provides two options for communication interface, highly effective FlexIO interface and standard LPSPI interface. The S32K SDK ISELED driver is not part of standard S32K SDK installation and a separate download is required from nxp web. Please follow the instructions to proceed:

- 1. Visit <u>www.nxp.com/S32K-ISELED</u> web page
- 2. Click Get Started Tab and Choose Evaluation Path for Non-AUTOSAR

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3. Download the S32K SDK ISELED driver.

5. Download the S32K SDK ISELED driver

NOTE: S32K SDK ISELED driver is not integrated as part of standard S32 SDK installation.

4. Alternatively, download link could also be found via <u>www.nxp.com/S32K-ISELED</u> Documents and Software Tab.

Installation of S32K SDK ISELED driver

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5. To proceed with the download, the user needs to be logged-in using the user account. In case of new user, please proceed with the Register Now option prior logging into the NXP web page.



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FAQ

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Recent Updates	To register a New Product please click on the button below	
Licensing License Lists Offline Activation	Current Previous	
FAQ Download Help Table of Contents	Version Description 3.0.0 SW32K1-ISELED-RTM-3.0.0 ISELED middleware stack for control of Digital LEDs using the ISELED protocol.	Download Log
FAQs		

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Product Search	SW32K1-ISELED-RTM-3.0.0
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Recent Product Releases	Please read the following agreement and click "I AGREE" at the bottom before downloading your software.
Recent Updates	
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11. Generate the license file for the S32K SDK ISELED driver by selecting the License Keys tab.



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12. Store the license file on your computer. Use this license file during the installation of the NXP S32K ISELED Driver. Important: the S32SDK_S32K1xx_RTM_3.0.0 installation directory must be selected for the NXP S32K ISELED Driver installation.

NP				ALL	•		1 Account	English *	T Cart
PRODUCTS	APPLICATIONS	SUPPORT	ABOUT						
$\text{NXP} \supset \text{Software & Support} \supset \textbf{V}$	New Licenses								
Software & Support Product List Product Search Order History Recent Product Releases Recent Updates Licensing License Lists Offline Activation FAQ Download Help Table of Contents FAQs	View Lice Below are the loose License Applicable Version Descrited 3.0.0 SW32K- License Quartity 1 License Quartity 1 Host ID: ABY #S32K1X: ISELE(#SM32K1-ISELE # License for	Censes er you selected to vie Print Printerity Dav to Product(s): inseled.rtM3.0.0	w.) Internal E	valuet	ion Licens	19** * •	tot is is 2 **1	

S32K SDK ISELED BETA 3.9.0 Driver Installation Guide, Rev. 1, 09/2019



13. Run the ISELED Driver installer and click "Next"

14. Accept the terms of the License Agreement and continue

₩ ISELED 3.0.0 for S32 SDK 3.0 Setup —	Х
License Agreement Please review the license terms before installing ISELED 3.0.0 for S32 SDK 3.0.	NP
Press Page Down to see the rest of the agreement.	
NXP ISELED® SOFTWARE LICENSE AGREEMENT v1.0	^
IMPORTANT. Read the following NXP ISELED® Software License Agreement ("Agreement") completely. By selecting the "I Accept" button at the end of this page, or by downloading, installing, or using the Software, you indicate that you accept the terms of the Agreement and you acknowledge that you have the authority, for yourself or on behalf of your company, to bind your company to these terms. You may then download or install the file(s). In the event of a conflict between the terms of this Agreement and any license terms and conditions for NXP's proprietary software embedded anywhere in	~
Please review the license agreement before installing ISELED 3.0.0 for S32 SDK 3.0. If you accept all terms of the agreement, select the first option below. Click Next to continue.	1
 I accept the terms of the License Agreement I do not accept the terms of the License Agreement 	
NXP	
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15. Select the license file that was saved previously

NP ISELED 3.0.0 for S32 SDK 3.0 Setup	_	×
License check ISELED for S32 SDK license		NP
Please select a license file.		
C:\Documents\license.dat		
NXP		
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- 16. If the license expires, please contact <u>gpis.software@nxp.com</u> or your NXP sales representative and ask for an Activation Code to register the software
- 17. Select the components for the installation

NP ISELED 3.0.0 for S32 SDK 3.	0 Setup —		×
Choose Components			
Choose which features of IS	LED 3.0.0 for S32 SDK 3.0 you want to install.		NP
Check the components you w install. Click Next to continue	ant to install and uncheck the components you do	n't want i	to
Select the type of install:	AllPackages		\sim
Or, select the optional components you wish to install:	Examples Crivers		
	Description		
Space required: 6.4MB	Position your mouse over a component to see description.	its	
NXP			
	< Back Next >	Car	ncel

18. Select the installation path. Make sure that the installation path is the same as the S32K SDK BETA 3.9.0 installation folder

S32K SDK install directory
S32K SDK install directory
S32K SDK install directory
Browse
Browse

19. Finally click Install to start the setup

ISELED 3.0.0 for S32 SDK 3.0 Setup				×
Ready to Install the Program				
The wizard is ready to begin the installation.				NP
Click Install to begin the installation.				
If you want to review or change any of your installation exit the wizard.	settings, d	lick Back. Cli	ck Cancel	to
VP				
< Ba	ick	Install	Ca	ncel

5. Troubleshooting

To verify the ISELED Driver installation please follow the next steps:

1. Start the S32 Design studio and select New S32DS Project from Example in File menu.

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	Op	en Projects	from File Sy	/stem			4	New S32DS Project from Example													- I	
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	Clo	ise All				Ctrl+Shift+W	D ²	C++ Project														
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	Sav	re As						Project														
B	Sav	re All				Ctrl+Shift+S	C++	Convert to a C/C++ Project (Adds C/C++ Nature)														
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	Mo	ive					Ľ	Folder														
	Rei	name				F2	C	Source File														
8	Ref	resh				F5	h	Header File														
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2. If the description of the ISELED Driver example application states that the example is a placeholder, it means that the installation path for the ISELED Driver did not match the S32K SDK BETA 3.9.0 installation folder. Please see step 3.16.



3. Another way to verify the ISELED Driver installation is to check if the ISELED libraries are present in the S32K SDK BETA 3.9.0 installation folder

	> This PC > OSDisk (C:) > NXP > S32DS_A	.RM_v2018.R1 → S32D	S > S32_SDK_RTM_3.	0.0 > platform > c	lrivers > src > iseled > gcc
	Name	Date modified	Туре	Size	
2	libiseled_S32K11x.a	11/27/2018 5:48 PM	A File	42 KB	
	libiseled_S32K14x.a	11/27/2018 5:48 PM	A File	42 KB	

- In the case that the S32DesignStudio -<u>http://www.nxp.com/lgfiles/updates/Eclipse/S32DS_ARM_2018.R1/updatesite</u> is not reachable, the SDK can be manually installed.
- Download the update package from Updated/Patches (for ADM S32DS -<u>https://www.nxp.com/support/developer-resources/run-time-software/s32-design-studio-ide/s32-design-studio-ide-for-arm-based-mcus:S32DS-ARM?&tab=Design_Tools_Tab</u>

6.	In Design	Studio click	on Help ->	Install	new software	and choose	• Add ->	Archive
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№ Install	- D X
Available Software Check the items that you wish to install.	
Work with: jarfile:/C:/Users/md24838/Downloads/S32DS_ARM_v2018.R1_UP6.zipl/ Fir	Add Add Add Add
	Version
> > Add Repository Name:	Cancel
Show only the latest versions of available software	lide items that are already installed
Group items by category W	/hat is <u>already installed</u> ?
□ Show only software applicable to target environment	
0	< Back Next > Finish Cancel

7. Select the previously downloaded update ZIP file and continue with the Next button

👐 Install		_		×
Available Software Check the items that you wish to install.				
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Contact all update sites during install to find required software				
(?)	< Back Next >	Finish	Cancel	

S32K SDK ISELED BETA 3.9.0 Driver Installation Guide, Rev. 1, 09/2019

6. Starting from S32K SDK ISELED example application

The S32K SDK ISELED driver is provided with the example application. The example application uses FreeMASTER SW component from NXP, used for data visualization and operation of project flow. In case the FreeMASTER SW component is not installed on your computer, please visit the <u>www.nxp.com/freemaster</u> website to download the installation package of the FreeMASTER component.

For a detailed description of the ISELED Driver example application, please refer to the ISELED_UserGuide document that can be found in the installation path under the "doc" folder.

To start the user application based on this example, please follow these instructions:

1. Start the S32 Design studio and select New S32DS Project from Example in File menu.

NP	workspaceS32DS.ARM - C/C++ - S32 Desi	ign Studio for ARM					-		×
File	Edit Source Refactor Navigate S	Search Project Run	Pre	cessor Expert Window Help					
	New	Alt+Shift+N >	C?	S32DS Application Project	Alt+B, A	🔅 🕶 💽 🕶 🚱 🕶 💁 🖉 🐨 💷 🔳 👔	2 • 🖓 • 🌤 🔶 •	-	~
	Open File		2	S32DS Library Project	Alt+B.Z		Quick Access	1	睑ゃ
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	Close All	Ctrl+Shift+W	B	C++ Project					
	Save	Ctrl+S	Ċ	C Project					
	Save As		Ľ	Project					
R	Save All	Ctrl+Shift+S	C++	Convert to a C/C++ Project (Adds C/C++ Nature)					
	Revert		63	Source Folder					
	Move			Folder					
Ľ	Rename	F2	C	Source File					
8	Refresh	F5	h	Header File					
	Convert Line Delimiters To	>		File from Template					
	Print	Ctrl+P	G	Class		-			
	Switch Workspace	>		Example					
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	2 main.c [iseled_freemaster_s32k144/]								
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	4 flexio_iseled_driver.h [lseled_v1/]		Ŀ						
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6	Build (All)	FreeRTOS Ta	k Av	vare Debugger Console	, and 2.2				_
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Ĺ	Project settings								
9	Build settings								
5	Debug settings								
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2. Select the iseled_freemaster_s32k144 example application from the S32K144 examples list.

Starting from S32K SDK ISELED example application

×

S32DS Project from Example.

Create S32DS Project from Example

nter search text		
amples:		Description:
 S32K14x RTM SDK v3.0.0 Example Projects S32K142 S32K142 S32K144 adc_low_power_s32k144 anfc_s32k144 flexcan_encrypted_s32k144 freemoster_s32k144 freetos_s32k144 hello_world_s32k144 iseled_freemaster_s32k144 iseled_freemaster_s32k144 fin_master_s32k144 forwer_examples S32K148 S32K14x EAR SDK v0.8.6 Example Projects User Examples 	~	This is a simple application created to show configuration for supported compilers (GCC) The example documentation can be found in the S32 SDK documentation at Examples and Demos section. (<sdk_path>/doc/Start_Here.html)</sdk_path>

3. In case the pop-up window is displayed, select the SDK_S32K1xx_15 components repository.

♦ Loading iseled_freemaster_s32k144 project components ×	:
(i) Please select component that should be used in the project.	
Problem during loading "S32K144_100" component: repository URL "file:/C:/nxp/S32DS_ARM_Win32_v2018.R1_b180326/S32DS/S32SDK_S32K1xx_BETA_2.9.2/tools/pex/Repositories/SI K_S32K1xx_14_Repository" does not exist or it is not configured properly, but the component is found in the following repositories:	þ
SDK_S32K14x_09/S32K144_100, version 01.197 SDK_S32K14x_11/S32K144_100, version 01.197 SDK_S32K14x_12/S32K144_100, version 01.197 SDK_S32K1xx_15/S32K144_100, version 01.197	
OK Cancel	

Loading iseled_freemaster_s32k144 project comp	onents	×
I Please select component that should be used in	the project.	
Problem during loading "PinSettings" component: re "file:/C:/nxp/S32DS_ARM_Win32_v2018.R1_b180326/S K_S32K1xx_14_Repository" does not exist or it is not c following repositories:	epository URL 532DS/S32SDK_S32K1xx_BET onfigured properly, but the	A_2.9.2/tools/pex/Repositories/SI component is found in the
SDK_S32K1xx_15/PinSettings, version 1.2.0		
SDK_S32K116_00/PinSettings, version 1.2.0 - not sup SDK_S32K118_10/PinSettings_version 1.2.0 - not sup	oported for selected process	ior
SDK_S32K14x 09/PinSettings, version 1.2.0 - not sup	ported for selected process	er
SDK_S32K14x_11/PinSettings, version 1.2.0 - not sup	ported for selected process	or
SDK_S32K14x_12/PinSettings, version 1.2.0 - not sup	ported for selected process	or
	Yes To All	OK Cancel

4. Generate the Processor Expert Code by selecting the option in Project menu and wait for the code generation to be completed before continuing.

workspaceS32DS.ARM - C/C++ - S32 De File Edit Source Refactor Navigate	esign Studio for ARN	A Run Processor Expert Window Help				- o ×
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				Channel 3	PTA7	Input
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				Channel 6	PTB2	Input
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				Channel 10	PTC2	Input
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5. Build the project by selecting the build command from the menu bar and selecting the Debug_FLASH option.

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File Edit Source Refactor Navigate	Search I	Project Run ProcessorExpert Window Help				
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6. Choose the debugging option by selecting Run menu and Debug Configuration item. Here you can select the Debug interface option.

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S32K SDK ISELED BETA 3.9.0 Driver Installation Guide, Rev. 1, 09/2019

Debug Configurations Create manage and run configurations	-	×					
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Filter matched 9 of 15 items	Revert Apply						
٢	Debug Clos	e					

For more details about the S32K SDK ISELED driver, please open the driver documentation, stored in the installation folder.

For a detailed description of the ISELED Driver example application please read the ISELED_UserGuide document that can be found in the installation path under the "doc" folder.

NOTE

The S32K SDK ISELED example project is using FreeMASTER SW component from NXP, used for data visualization and operation of project flow. In case the FreeMASTER SW component is not installed on user computer, please visit the <u>www.nxp.com/freemaster</u> to download the installation of the FreeMASTER component.

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