FX SERIES Embedded SDK



Installation Guide

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FX SERIES EMBEDDED SDK INSTALLATION GUIDE

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Revision History

Changes to the original manual are listed below:

Change	Date	Description
-01 Rev A	11/2017	Initial release

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ABOUT THIS GUIDE

Introduction

This Installation Guide describes how to install the FX Series Embedded SDK.

Chapter Descriptions

Topics covered in this guide are as follows:

- Installing CodeSourcery Lite describes how to install Mentor Graphics Corporation CodeSourcery Lite and set the environment variable.
- Installing Zebra FX Series Embedded SDK describes how to install the Zebra FX Series Embedded SDK.

Notational Conventions

The following conventions are used in this document:

- FX Series refers to the FX7500 and FX9600 RFID readers.
- Bold text is used to highlight the following:
 - Dialog box, window and screen names
 - Drop-down list and list box names
 - Check box and radio button names
 - Icons on a screen
 - Key names on a keypad
 - Button names on a screen.
- Bullets (•) indicate:
 - Action items
 - Lists of alternatives
 - Lists of required steps that are not necessarily sequential.
- Sequential lists (e.g., those that describe step-by-step procedures) appear as numbered lists.

Related Documents and Software

The following documents provide more information about the RFID readers.

- FX Series RFID Reader Integrator Guide, p/n MN000026Axx
- FX7500 RFID Reader Quick Start Guide, p/n MN000070Axx
- FX7500 RFID Reader Regulatory Information, p/n MN000027Axx
- FX9600 RFID Reader Quick Start Guide, p/n MN-003087-xx
- FX Series Reader Software Interface Control Guide, p/n 72E-131718--xx
- RFID Demo Applications User Guide, p/n 72E-160038-01
- FX Series Embedded SDK Programmer's User Guide, p/n MN000540Axx
- FX Series Embedded SDK Sample Applications User Guide, p/n MN000539Axx
- Application Guide for Zebra Enterprise Mobility Devices, p/n 72E-68902-xx
- RFID 3 API
- EPCglobal Low Level Reader Protocol (LLRP) Standard

For the latest version of these guides and software, visit: www.zebra.com/support.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: <u>www.zebra.com/support</u>.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software type and version number.

Zebra responds to calls by email, telephone or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

Installing CodeSourcery Lite

Introduction

This chapter describes how to install Mentor Graphics Corporation CodeSourcery Lite and set the environment variable.

Installing Mentor Graphics CodeSourcery Lite

To install CodeSourcery Lite:

- NOTE: The following instructions show Microsoft Windows 7 screens. The FX Series Embedded SDK also supports the Microsoft Windows XP operating system. This procedure was not tested on Microsoft Windows 8. The installation was reported as working on Microsoft Windows 8, but is currently not officially supported.
- 1. Download CodeSourcery Lite Version 4.4-290 from the Mentor Graphics Corporation web site www.mentor.com to the host computer. The installation file name is arm-2010q1-202-arm-none-linuxgnueabi.exe.
- 2. Execute the installation file on the host computer.

-01

Sourcery G++ Lite for ARM GNU	
	Sourcery G++ Lite for ARM GNU/Linux Wizard
Welcome! Minortant Information Choose Install Set Add to PATH? Choose Shortcut Folder Pre-Installation Summary Installing Install Complete Coeffort	InstallAnywhere will guide you through the installation of Sourcery G++ Lite for ARM GNU/Linux. It is strongly recommended that you quit all programs before continuing with this installation. Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button. You may cancel this installation at any time by clicking the 'Cancel' button.
InstallAnywhere by Macrovision	Previous Next

- 3. Select Next.
- 4. Accept the License Agreement and select Next.
- 5. On the Important Sourcery G++ Lite for ARM GNU/Linux Information window, select Next.
- 6. On the Choose Install Set window, select Typical.



- Figure 2 Choose Install Set Window
- 7. Select Next.

Formats

8. Enter the installation folder.



IMPORTANT: Ensure the installation folder name does NOT contain spaces.

NOTE: Retain the path information for setting up environment variable.

Sourcery G++ Lite for ARM GNU	/Linux 👝 🗉 🛃
	Choose Install Folder
🕜 Welcome!	Where Would You Like to Install?
Important Information	C:\CodeSourcery\Sourcery_G++_Lite
🕜 Choose Install Set	Restore Default Folder Choose
∋ Choose Install Folder	
🔵 Add to PATH?	
🔵 Choose Shortcut Folder	
Pre-Installation Summary	
🔵 Installing	
🔵 Install Complete	
~	
S CODESOURCERY	
4	
nstallAnywhere by Macrovision	
<u>C</u> ancel	Previous Next

- Figure 3 Enter Installation Folder
- 9. Select Next.

10. On the Add product to the PATH? window, select Modify PATH for all users.



Figure 4 Add Product to the PATH? Window

- 11. Select Next.
- 12. Keep the defaults listed in the Choose Shortcut Folder window and Select Next.
- 13. In the Pre-Installation Summary window, select Install.





A status bar tracks the progress of the installation.

14. To open the Getting Started guide, leave View "Getting Started" guide? checked.

	Getting started with Sourcery G	
 Welcome! Important Information Choose Install Set Choose Install Folder Add to PATH? Choose Shortcut Folder 	Sourcery G++ Lite for ARM GNU/Linux provides a "Getting Started" guide. This guide helps you make the most of Sourcery G++ Lite for ARM GNU/Linux. The guide covers important features of this toolchain and includes step-by-step examples.	
 Pre-Installation Summary Installing Install Complete CODESOURCERY 	✓ View "Getting Started" guide?	
nstallAnywhere by Macrovision - Cancel	Previous Next	

Figure 6 Getting Started Window

15. Select Next, then Done to finish the installation.

	Install Comple
	Instan Compte
 Welcome! Important Information Choose Install Set Choose Install Folder Add to PATH? Choose Shortcut Folder Pre-Installation Summary Installing Install Complete 	Congratulations! Sourcery G++ Lite for ARM GNU/Linux has been successfully installed to: C:\CodeSourcery\Sourcery_G++_Lite Press "Done" to quit the installer.
stallAnywhere by Macrovision	

Figure 7 Install Complete Window

Setting CodeSourcery Lite Environment Variable

To set the environment variable:

- 1. On the host computer, select the Start button.
- 2. Right-click on Computer.
- 3. Select Properties.
- 4. Select Advanced Settings.



Figure 8 System Properties Window

5. Select Environment Variables...

Vanabic	Value
TEMP	%USERPROFILE%\AppData\Local\Temp
	New Edit Delete
ustern variables	
ystem variables Variable	Value
ystem variables Variable ComSpec	Value C:\Windows\system32\cmd.exe
vstem variables Variable ComSpec FP_NO_HOST_C	Value C:\Windows\system32\cmd.exe NO
variable ComSpec FP_NO_HOST_C NUMBER_OF_P OS	Value C:\Windows\system32\cmd.exe NO 2 Windows_NT .

Figure 9 Environmental Variables Window

6. Under System Variables, select New....

omputer Name	Hardware	Advanced	System Protectio	n Remote
Environment \	/ariables			C
Jiser variabl	er for user			
New Syst	em Variabl	e		.
Variable	name:	CS_LITE_V	VORKING_DIR	
Variable	value:	C:\CodeSo	urcery\Sourcery_	G++_Lite
			OK	Cancel
			ОК	Cancel
<u>S</u> ystem varia	ables		ОК	Cancel
System varia	ables V	alue	ОК	Cancel
System varia Variable ComSpec	ables V. C	alue : \Windows\s)	OK /stem32\cmd.exe	Cancel
System varia Variable ComSpec FP_NO_HO	ables V. CDST_C N	alue :\Windows\s) O	OK ystem32\cmd.exe	Cancel
System varia Variable ComSpec FP_NO_HC NUMBER_C	ables V. C DST_C N DF_P 2	alue : \Windows \sy O	OK /stem32\cmd.exe	Cancel
System varia Variable ComSpec FP_NO_HC NUMBER_C OS	ables V. OST_C N DF_P 2 W	alue :\Windows\s; O Vindows_NT	OK /stem32\cmd.exe	Cancel
System varia Variable ComSpec FP_NO_HC NUMBER_C OS	ables V. DST_C N DF_P 2 W	alue : \Windows\sy O /indows_NT Ne <u>w</u>	OK /stem32\cmd.exe Edit	Cancel
System varia Variable ComSpec FP_NO_HC NUMBER_ OS	ables V. OST_C N DF_P 2 W	alue :\Windows\s; O Vindows_NT Ne <u>w</u>	OK /stem32\cmd.exe Edit	Cancel

Figure 10 Environmental Variables Window

7. In the Variable name: field, enter CS_LITE_WORKING_DIR, and in the Variable value: field enter the installation path from Step 8 in Installing Mentor Graphics CodeSourcery Lite.



IMPORTANT: Ensure the installation path does NOT contain spaces.

- 8. Select OK three times to close all property windows.
- 9. Close the System Properties windows.

Installing Zebra FX Series Embedded SDK

Introduction

This chapter describes how to install the Zebra FX Series Embedded SDK.

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NOTE: The instructions in this chapter show Microsoft Windows 7 screens. This procedure was not tested on Microsoft Windows 8. The installation was reported as working on Microsoft Windows 8, but is currently not officially supported.

Installing the FX Series Embedded SDK

To install the Zebra FX Series Embedded SDK:

1. Execute the file Zebra FXSeries Embedded SDK Installer.msi on the host computer.

Figure 1 SDK Setup Wizard Welcome Window

😸 Zebra FXSeries Embedded SI	DK - InstallShield Wizard
2	Welcome to the InstallShield Wizard for Zebra FXSeries Embedded SDK
	The InstallShield(R) Wizard will install Zebra FXSeries Embedded SDK on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< <u>B</u> ack Next > Cancel

2. Select Next.

3. Accept the License Agreement and select Next.

Figure 2 SDK License Agreement Window

늻 Zebra FXSeries Embedded SDK - InstallShield Wizard
License Agreement Please read the following license agreement carefully.
ZEBRA TECHNOLOGIES, INC.
END USER LICENSE AGREEMENT
Zebra Technologies is willing to license its Software and the accompanying documentation to you only on the condition that you accept all the terms in this License Agreement ("Agreement").
I do not accept the terms in the license agreement I do not accept the terms in the license agreement
InstallShield

4. Select the installation path and folder, and click OK. Select Change if a different folder is desired.

IMPORTANT: Ensure the installation folder name does NOT contain spaces.

Figure 3 SDK Destination Folder Window

Change Current Destination Folder Browse to the destination folder.	Click Ne	tion Folder ext to install to this folder, or click Change to install to a differen	t folder.
Look in: System (C:) 844532ed299f818969b6d06d85 Intel Gisco AnyConnect Motorola-FX7500-Embedded-SDK CodeSourcery MSOTrace Johs HP Nvfslogs HP Neeraj Intel Vitalis Vitalis	C C C C C C C C C C C C C C C C C C C	Install Zebra FXSeries Embedded SDK to: C: \Zebra -FXSeries-Embedded-SDK\	
Eolder name: C:\	InstallShield		

5. Select Next.

IMPORTANT: If installing into Program Files or Program Files (x86), ensure Everyone is selected for all files with all access rights included.

6. Select Install.

😸 Zebra FXSeries Embedded SDK - InstallShield Wizard			
Ready to Install the Program The wizard is ready to begin installation.			
If you want to review or change any of your installation settings, dick Back. Click Cancel to exit the wizard. Current Settings:			
Setup Type:			
Typical			
Destination Folder:			
C:\Zebra-FXSeries-Embedded-SDK\			
User Information:			
Name: Zebra Technologies			
Company: Zebra Technologies			
InstallShield < <u>B</u> ack Install Cancel			

A status progress bar displays.

Figure 5 SDK Installation Progress Window.

😸 Zebra FXSeries Embedded SDK - InstallShield Wizard			
Installing The pro	gram features you selected are being installed.		
1.	Please wait while the InstallShield Wizard installs Zebra FXSeries Embedded SDK. This may take several minutes. Status:		
InstallShield -	< <u>B</u> ack <u>N</u> ext > Cancel		

7. Select Finish.

Figure 6 SDK Installation Completion Window

岩 Zebra FXSeries Embedded SDK - InstallShield Wizard		
	InstallShield Wizard Completed The InstallShield Wizard has successfully installed Zebra FXSeries Embedded SDK. Click Finish to exit the wizard.	
	< Back Finish Cancel	



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