NXP UM10785 demo board Installation Guide

http://www.manuallib.com/nxp/um10785-demo-board-installation-guide.html

This software installation guide shows you how to correctly load communications firmware on the Fm+ Demo Board OM13320 and the GUI software that runs under Win7 64-bit operating system. Please ignore any previous versions of software or firmware which may mention FM+DevelopmentBoard V03_00.bin, size 19kb,orFmDevelopmentBoardOM13260SoftwareInstall.zip, size 118MB. Also, there is no need to install the correct USB driver.

ManualLib.com collects and classifies the global product instrunction manuals to help users access anytime and anywhere, helping users make better use of products.

http://www.manuallib.com

UM10785

Fm+ Demo Board Software Installation Guide

Rev. 1.0 — 25 February 2014

User manual

Document information				
Info	Content			
Keywords	Fm+ Demo Board, OM13320			
Abstract	Software installation guide for the Fm+ Demo Board, OM13320			



UM10785

Fm+ Demo Board Software Installation Guide

Revision history

Rev	Date	Description
1.0	20140225	Initial Release

Contact information

For more information, please visit: <u>http://www.nxp.com</u>

For sales office addresses, please send an email to: salesaddresses@nxp.com

UM10785 User manual All information provided in this document is subject to legal disclaimers. **Rev. 1.0 — 25 February 2014** © NXP B.V. 2014. All rights reserved. 2 of 11

Introduction 1.

UM10785

This software installation guide shows you how to correctly load communications firmware on the Fm+ Demo Board OM13320 and the GUI software that runs under Win7 64-bit operating system.

Please ignore any previous versions of software or firmware which may mention FM+DevelopmentBoard V03_00.bin, size 19kb, or

FmDevelopmentBoardOM13260SoftwareInstall.zip, size 118MB. Also, there is no need to install the correct USB driver.

2. **Firmware Installation**

The Fm+ demo board OM13320 contains an LPC1343 microcontroller which handles communications between the PC running a GUI and the I2C hardware on the board. This micro must have the correct communications firmware to communicate correctly with the PC.

To install firmware to enable communications, download NXP Fm+ Eval Board v1.0 firmware.zip from http://www.nxp.com/demoboard/OM13320.html#documentation

- 1. Unzip NXP_Fm+_Eval_Board_v1.0 firmware.zip
- 2. Connect a USB cable from the PC USB port to CN5. Note: Two green LEDs are on (D4 for VUSB and D5 for 3V3)
- Install the ISP (JP6) jumper to put the MCU into In-System Programming mode
- 4. Install and then remove RST (JP4) jumper to reset the MCU
- 5. The MCU will enumerate on the PC as shown in Fig 1
- 6. Delete the file on the MCU (size may vary up to 32kB) as shown in Fig 2
- 7. Copy the new firmware file NXP_Fm+_Eval_Board_v1.0.bin to the MCU as shown in Fig 3
- 8. Remove the ISP (JP6) jumper
- 9. Install and then remove RST (JP4) jumper to reset the MCU



 Share with Burn 	New folder			
rites wnloads sktop pbox ent Places pale Drive	Name	Date modified 2/6/2009 9:10 AM	Type VLC media file (.bi	Size 32 KB

Organize 🔻 📄 Open	★ Share with ★ E-mail Burn New folder		
🚖 Favorites 👘	Name	Size	Item ty
📃 Desktop	v Orig Autolt Filer		File fol
📕 Downloads	vilsBiss to 12C		File fol
🔛 Recent Places	xVoltage Level Translation		File fol
💔 Dropbox 😑	xWriting		File fol
iCloud Photos	xx Biz		File fol
SkyDrive	NXP Fm+ Board V1.0 Installation.exe	5,865 KB	Applic
Carl Street	NXP_Fm+_Eval_Board_v1.0.bin	9 KB	BIN Fil
Calibraries	NXP_COLOR.zip	1,695 KB	Compr
	PCT new devices comparison table.xls	34 KB	Micros
Computer	Biz Case Tool R2 4.xlsm	5,363 KB	Micros
AWS_System (C:)	Apple Cross Bid RFQ - NXP_04Feb14_Inputs_JMI1.xlsx	34 KB	Micros
Dell Backup (D:)	Buffer Charts.xlsx	3,503 KB	Micros
NYP Em+ Eval	Roard v1.0 bin Date modified: 2/21/2014 3:06 PM Date create	ad: 2/21/2014 3:06 DM	
RIN File	Size: 810 KR	EQ: 2/21/2014 5.00 PW	

3. GUI Installation

The Fm+ Demo Board GUI provides an easy way to evaluate NXP I^2C devices and understand the internal logic functions. It communicates directly with the Fm+ Demo Board hardware and provides real-time control of devices connected to the I^2C -bus.

UM10785 User manual All information provided in this document is subject to legal disclaimers. Rev. 1.0 — 25 February 2014 © NXP B.V. 2014. All rights reserved. 4 of 11 To install the GUI on the control PC, download NXP Fm+ Board V1.0 Installation.zip from

- http://www.nxp.com/demoboard/OM13320.html#documentation
 - 1. Unzip NXP Fm+ Board V1.0 Installation.zip
 - 2. Connect a USB cable from the PC USB port to CN5.
 - 3. Run NXP Fm+ Board V1.0 Installation.exe.
 - 4. Click next on the introduction screen, Fig 4.
 - 5. Click the I accept radio button and next on the License screen, Fig 5.
 - 6. Click next on the destination folder screen, Fig 6.
 - 7. Click Anyone and then Install on the ready screen, Fig 7.
 - 8. When the install is complete, click finish on the final screen, Fig 8.

Double click on the NXP Fm+ Evaluation Board shortcut on the desktop to start the GUI program. If the board is connected via USB cable and functioning correctly, a splash screen will appear with USB-I2C Hardware Detected in green, Fig 9.

izctools.com	Welcome to the InstallShield Wizard for NXP Fm+ Board software
USB-to-I2C Installation	The InstallShield(R) Wizard will allow you to modify, repair, or remove NXP Fm+ Board software. To continue, click Next.



UM10785

Please read the following lice	nse agreement carefully.		XP
LICENSE			-
NXP Semiconductors is pro Conditions: ACCESS TO AND USE OF T THESE TERMS AND COND	vided subject to the follo THIS SOFTWARE IS PRO ITIONS. THIS SOFTWAR	Wing Terms and OVIDED SUBJEC	d CT TO E USED OR
ACCESSED WITHOUT USE OF THIS SOFTWARE CONS CONDITIONS.	R'S PRIOR ACCEPTANC STITUTES ACCEPTANCE	THESE TE OF THESE TER	RMS. USE MS AND
ACCESSED WITHOUT USE OF THIS SOFTWARE CONS CONDITIONS.	R'S PRIOR ACCEPTANC STITUTES ACCEPTANCE ise agreement	THESE TER	RMS. USE MS AND
ACCESSED WITHOUT USE OF THIS SOFTWARE CONS CONDITIONS. I accept the terms in the licen I do not accept the terms in the InstallShield	R'S PRIOR ACCEPTANC STITUTES ACCEPTANCE use agreement he license agreement	XE OF THESE TER	RMS. USE MS AND

Click Next	on Folder It to install to this folder, or click Change to install to a different fo	
Ø	Install NXP Fm + Board software to: C:\Program Files (x86)\NXP Semiconductors\NXP Fm +\	Change
		Change
InstallShield —	< Back Next >	Cancel



UM10785

Ready to Install the Pr The wizard is ready to b	rogram begin installation.
If you want to review or exit the wizard.	r change any of your installation settings, click Back. Click Cancel to
	Anvone who uses this computer (all users)
	Only for me (NXP)
InstallShield	

	InstallShield Wizard Completed
N	The Wizard has successfully installed NXP Fm + Board software. Click Finish to exit the wizard.
	Show the Windows Installer log
	< Back Finish Cancel



UM10785



GUI Splash screen – working correctly with USB-I2C Hardware Detected in green

All information provided in this document is subject to legal disclaimers.

User manual

UM10785

4. Legal information

4.1 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

4.2 Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors accepts no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Evaluation products — This product is provided on an "as is" and "with all faults" basis for evaluation purposes only. NXP Semiconductors, its affiliates and their suppliers expressly disclaim all warranties, whether express, implied or statutory, including but not limited to the implied warranties of non-infringement, merchantability and fitness for a particular purpose. The entire risk as to the quality, or arising out of the use or performance, of this product remains with customer.

In no event shall NXP Semiconductors, its affiliates or their suppliers be liable to customer for any special, indirect, consequential, punitive or incidental damages (including without limitation damages for loss of business, business interruption, loss of use, loss of data or information, and the like) arising out the use of or inability to use the product, whether or not based on tort (including negligence), strict liability, breach of contract, breach of warranty or any other theory, even if advised of the possibility of such damages.

Notwithstanding any damages that customer might incur for any reason whatsoever (including without limitation, all damages referenced above and all direct or general damages), the entire liability of NXP Semiconductors, its affiliates and their suppliers and customer's exclusive remedy for all of the foregoing shall be limited to actual damages incurred by customer based on reasonable reliance up to the greater of the amount actually paid by customer for the product or five dollars (US\$5.00). The foregoing limitations, exclusions and disclaimers shall apply to the maximum extent permitted by applicable law, even if any remedy fails of its essential purpose.

UM10785

User manual

All information provided in this document is subject to legal disclaimers. Rev. 1.0 — 25 February 2014 © NXP B.V. 2014. All rights reserved. 9 of 11

5. List of figures

Fig 1.	Fm+ Board enumerated as mass storage device on the PC over USB
Fig 2.	Firmware already loaded on the MCU – delete it
Fig 3.	Firmware downloaded file on the PC – copy it to MCU4
Fig 4.	GUI installation introduction screen5
Fig 5.	GUI installation License6
Fig 6.	GUI Installation destination folder screen6
Fig 7.	GUI Installation ready screen7
Fig 8.	GUI installation final screen7
Fig 9.	GUI Splash screen – working correctly with USB-I2C Hardware Detected in green

UM10785

User manual

All information provided in this document is subject to legal disclaimers.

Rev. 1.0 — 25 February 2014

© NXP B.V. 2014. All rights reserved. 10 of 11

6. Contents

1.	Introduction	3
2.	Firmware Installation	3
3.	GUI Installation	4
4.	Legal information	9
4.1	Definitions	9
4.2	Disclaimers	9
5.	List of figures	10
6.	Contents	11

Please be aware that important notices concerning this document and the product(s) described herein, have been included in the section 'Legal information'.

© NXP B.V. 2014.

All rights reserved.

For more information, please visit: http://www.nxp.com For sales office addresses, please send an email to: salesaddresses@nxp.com

> Date of release: 25 February 2014 Document identifier: UM10785