### **DESIGN AND IMPLEMENT NFC APPLICATIONS**

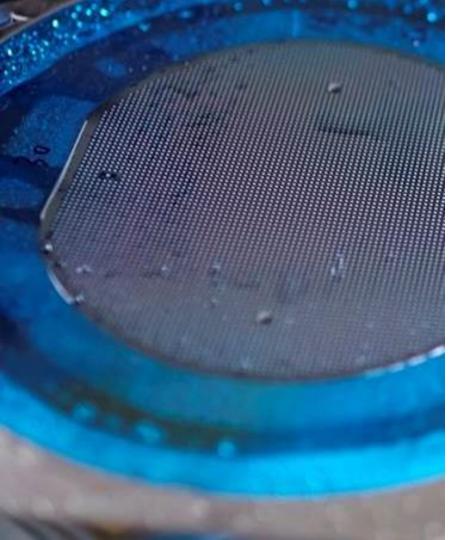
### **SESSION 1: PRODUCT SUPPORT PACKAGE FOR NXP NFC READERS**

September 2016









### Agenda

**Design and implement NFC applications** 

Session I, 7th September

Product support package for NXP NFC readers

https://attendee.gotowebinar.com/rt/2329750067403618817

Session II, 28th September

Antenna design considerations for NXP NFC reader solutions

https://attendee.gotowebinar.com/rt/282682617345186049

Session III, 18th October

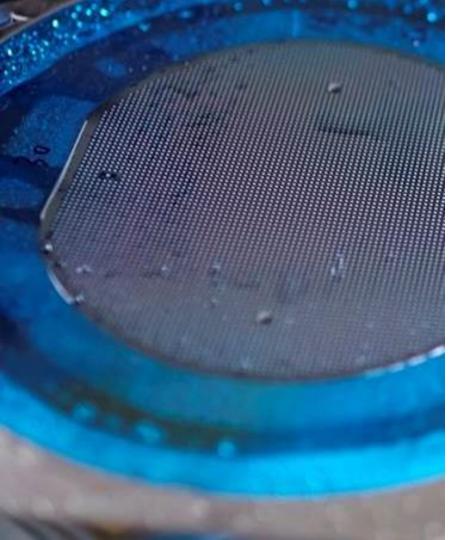
The NFC Cockpit - the complete design tool for engineers https://attendee.gotowebinar.com/rt/4665515186055692545

Session IV, 31th October

NFC Reader Library - SW support for NFC frontend solutions

https://attendee.gotowebinar.com/rt/7151741873899128067





### Agenda

### **Design and implement NFC applications**

Session I, 7th September

Product support package for NXP NFC readers

- NFC products in our portfolio
- Support material to choose the right NFC solution
- ▶ **HW support**: Demokits and reference boards
- SW support: Software tools and source code examples
- More design support: Antenna design, NFC community, online academy
- Wrap up of our support package for NFC readers



### NXP has the best support package on the market

We reduce complexity, streamline tasks and add flexibility at every point in development



### We know each step in the NFC implementation process

Our support package simplifies the process and reduces time to market



### We have the right material for each design step

Full range of development kits, design files, sample code, app notes, online training, tutorials



### Directly find answers to your questions

Through our technical NFC community and NXP certified Independent Design Houses (IDHs)

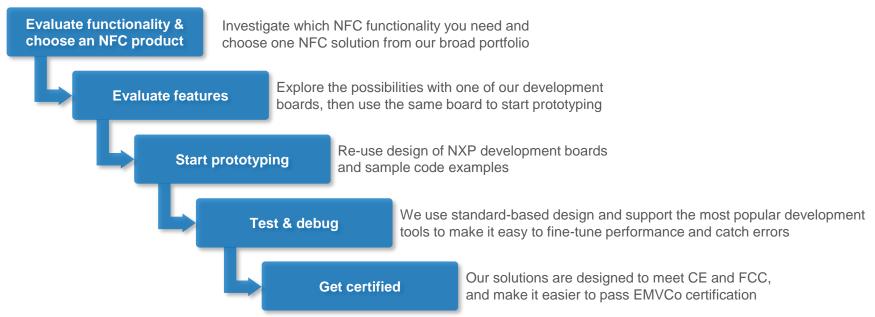
A unique combination of PCB boards, software tools, software examples, training material, documentation, tutorials and support community





### Our support for NFC

The NXP website is your starting point for any NFC design. It's where you'll find online resources that help you select a product, order samples, and begin development.





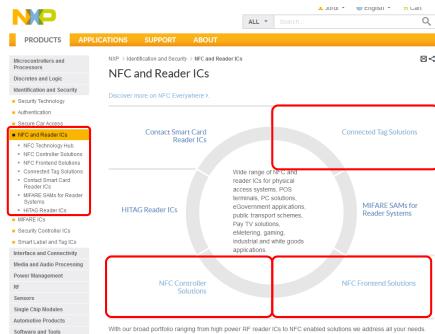
### **CHOOSE AN NFC PRODUCT**



### Where to find our NFC portfolio



http://www.nxp.com/



http://www.nxp.com/products/identification-and-security/nfc-and-reader-ics:MC 71110

Based on our long experience we continue to lead the expansion from traditional smart card applications to a wide

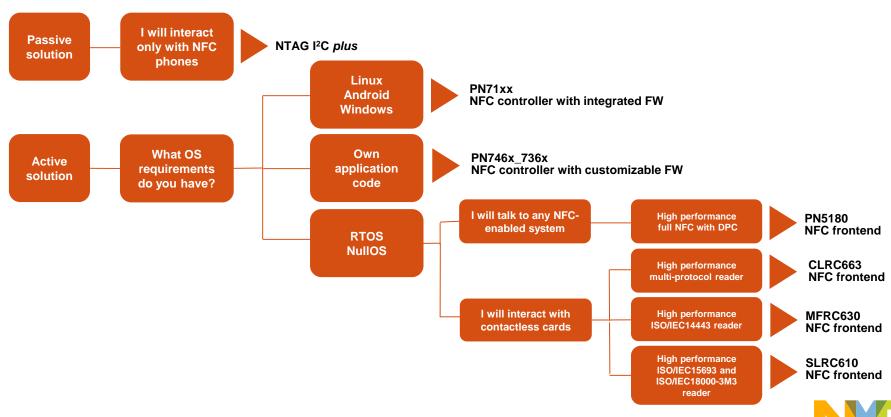


### NFC focus products addressing all your needs

NTAG I<sup>2</sup>C plus Entry level NFC applications: Connected tag solutions Field detection Ideal for low power operations Connected NFC tag with application SLRC610, MFRC630, CLRC663, PN5180 Maximum flexibility: NFC frontend solutions Integration with an external MCU PN7120, **PN7150** Plug-and-play: NFC controllers with integrated FW Easy integration into any OSapplication environment PN7462 family All-in-one: NFC controllers with customizable FW Contact and contactless interfaces, MCU and software in one chip



### The product selection path



### More support material to choose an NFC product

Plenty of technical details on our NFC solutions in our recorded sessions!



NXP NFC readers portfolio overview



NTAG I<sup>2</sup>C plus – Your entry way to NFC



### NFC product selection app



### PN71xx family – Plug-and-play NFC solutions



PN5180 – The best full NFC frontend on the market



### PN7462 family - First all-in-one full NFC solution

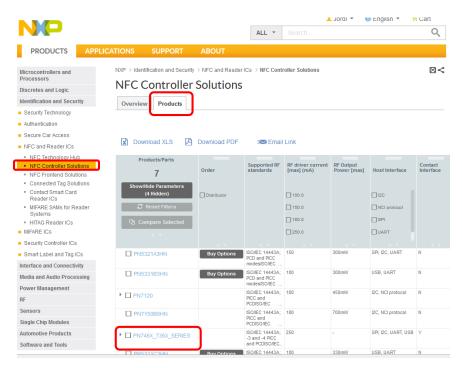




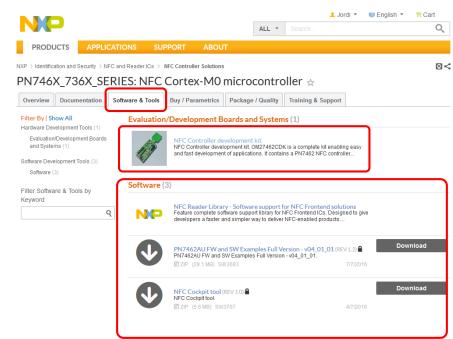
### FIND THE SUPPORT PACKAGE



### Where to find the support package?



http://www.nxp.com/products/identification-and-security/nfc-and-reader-ics/nfc-controller-solutions:MC 1429876594926?cof=0&am=0&tab=Products



http://www.nxp.com/products/identification-and-security/nfc-and-reader-ics/nfc-controller-solutions/nfc-cortex-m0-microcontroller:PN746X\_736X\_SERIES?&fpsp=1&tab=Design\_Tools\_Tab



## Our demokits are comprehensive packages with extensive support material

**Hardware PCBs** 









Reference source code and tools



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IC samples



### **Documentation**

Application notes, User Manuals, Quick start guides





### SUPPORT PACKAGE FOR: CONNECTED TAGS PORTFOLIO



### OM5569: NTAG I<sup>2</sup>C plus Explorer kit and variants

### OM5569-NT322E



#### **Contents**

- NFC Explorer board with Class 4 antenna
- Field detector board
- Additional NFC flex antenna (Class 6)
- NTAG I<sup>2</sup>C plus package SO8 samples

#### **Features**

Explorer kit to evaluate NTAG I<sup>2</sup>C plus and simple prototyping

### **Ordering details**

- Orderable part number: OM5569-NT322E
- 12NC: 935307849699
- URL: <a href="http://www.nxp.com/demoboard/OM5569-NT322E.html">http://www.nxp.com/demoboard/OM5569-NT322E.html</a>

### OM5569-NT322ER





#### Contents

- NFC Explorer board with Class 4 antenna
- Identive CLOUD 3700F reader
- Field detector board
- Additional NFC flex antenna (Class 6)
- NTAG I<sup>2</sup>C plus package SO8 samples

#### **Features**

 Explorer kit to including USB NFC reader to evaluate NTAG I<sup>2</sup>C plus and simple prototyping including

### **Ordering details**

- Orderable part number: OM5569-NT322ER
- 12NC: 935307848699
- URL: http://www.nxp.com/demoboard/OM5569-NT322ER.html

### OM5569-NT322F



#### Contents

- Class 4 flex antenna
- Class 5 flex antenna
- Class 6 flex antenna
- 10 NTAG I<sup>2</sup>C plus SO8 samples

#### **Features**

 Add-on Flex antenna kit to be used with NFC Explorer board or your own microcontroller for easy prototyping with NTAG I<sup>2</sup>C plus

#### **Ordering details**

- Orderable part number: OM5569-NT322F
- 12NC: 935307851699
- URL: <a href="http://www.nxp.com/demoboard/OM5569-NT322F.html">http://www.nxp.com/demoboard/OM5569-NT322F.html</a>





### NTAG I<sup>2</sup>C plus support tools and SW

NTAG I<sup>2</sup>C plus support tools and SW allow you to evaluate the IC capabilities, but also develop and test your own applications









### SUPPORT PACKAGE FOR:

NFC FRONTENDS &

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### OM25180FDK: PN5180 NFC frontend development kit



#### Contents

- PNEV5180B board with 65x65mm antenna optimized for EMVCo applications
- 30 mm x 50 mm antenna with matching components optimized for NFC applications
- Three small antenna matching PCBs for custom antenna matching
- NFC sample card (NTAG216)
- 10 PN5180 IC samples (HVQFN package)

#### **Features**

- Quick evaluation of PN5180 NFC frontend IC.
- Connect a custom antenna to PNEV5180 board
- Define and optimize the analog settings for any connected antenna
- Develop NFC applications based on the NFC Reader Library

### **Ordering details**

- Orderable part number: OM25180FDK
- 12NC: 935307319699
- URL: http://www.nxp.com/demoboard/om25180fdk.html





### CLEV663B: CLRC663 family development board

#### **Features**

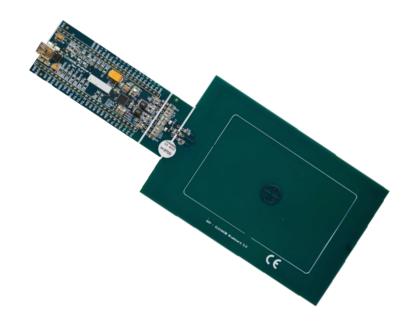
- CLEV663B is an NFC frontend development board which can be used for embedded software development based on LPCXpresso
- Power supply by USB cable.
- Antenna can be separated from the reader IC section.
- Software development kit based on NFC Reader Library.
- Including examples such as: polling loop, MIFARE Ultralight, MIFARE Classic, MIFARE DESFire EV1.

### **Ordering details**

- Orderable part number: CLEV663B
- 12NC: 935297815699
- URL: <a href="http://www.nxp.com/demoboard/CLEV663B.html">http://www.nxp.com/demoboard/CLEV663B.html</a>

### **Supported ICs**

Development board for CLRC663, MFRC630 and SLRC610







### PNEV512B and EXPLORE-NFC boards

### PNEV512B board



#### **Features**

- PNEV512Bis an NFC frontend development board which can be used for embedded software development based on LPCXpresso
- Power supply by USB cable.
- Antenna can be separated from the reader IC section.
- Software development kit based on NFC Reader Library.

#### **Ordering details**

- Orderable part number: PNEV512B
- 12NC: 935298199699
- URL: <a href="http://www.nxp.com/demoboard/pnev512b.html">http://www.nxp.com/demoboard/pnev512b.html</a>

### **EXPLORE - NFC**



#### **Features**

- EXPLORE-NFC is a high performance full NFC expansion board for the Raspberry Pi
- Based on PN512 NFC frontend reader IC
- Integrated high performance antenna
- Examples available for card polling, P2P communication and card emulation

### **Ordering details**

- Orderable part number: PNEV512R
- 12NC: 935303828699
- URL: http://www.nxp.com/demoboard/PNEV512R.html





### OM27462CDK: PN7462 NFC controller development kit



#### Contents

- PNEV7462B NFC controller board with standard 65x65mm antenna
- 30x50mm antenna with matching components
- Three PCBs for individual antenna matching
- Two USB cables
- OM13054 LPC-Link2 debug adapter
- 10 PN7462 IC samples
- NFC sample cards and tags

#### **Features**

- Easy antenna design with NFC Cockpit software and PCB adaptors for antenna matching
- Easy application development with full NFC Forum and EMVCo compliant contact and contactless libraries
- Smartcard reader and SAM slot extensions.

#### **Ordering details**

- Orderable part number: OM27462CDK
- 12NC: 935307673699
- URL: <a href="http://www.nxp.com/demoboard/om27462CDK.html">http://www.nxp.com/demoboard/om27462CDK.html</a>

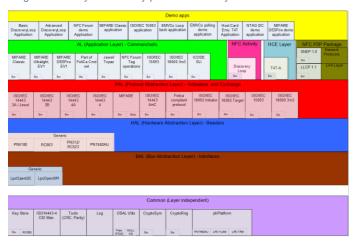




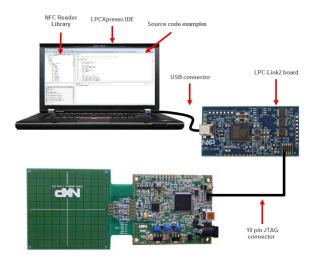
### NFC Reader Library: software support for NFC frontend solutions

#### **NFC Reader Library**

- The NFC Reader Library is a multi-layer library, written in ANSI C which makes it easy to create NFC-based applications.
- Each layer consists of different components having a generic interface and a specific implementation
- The library structure provides a modular way of programming and is designed in a way to be easily portable to many different microcontrollers.



More info and source code: <a href="http://www.nxp.com/pages/:NFC-READER-LIBRARY">http://www.nxp.com/pages/:NFC-READER-LIBRARY</a>



Webinar session **31/10/2016** 

#### NFC Reader Library software packages

_	
•	PN512
•	CLR663
<b>&gt;</b>	PN5180
•	Linux
<b>&gt;</b>	PN7462

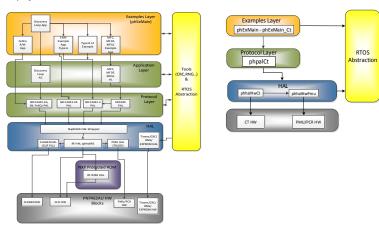


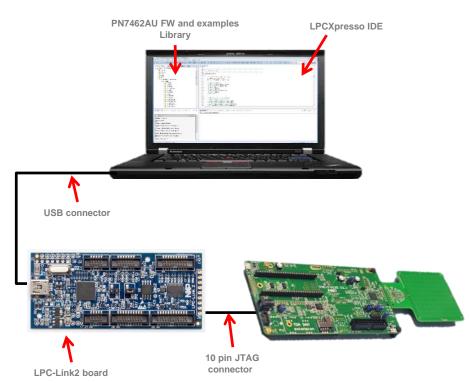
### PN7462 family dedicated firmware and software examples

### **Based on the NFC Reader Library and NXP Contact Library**

#### **PN7462 FW and SW examples**

- PN7462 is supported by contact and contactless (based on NFC Reader Library) software libraries that are validated and pre-certified for EMVCo and also comply with NFC Forum guidelines
- Written in C language and provide an API that facilitates all the operations and commands required in contact and contactless applications
- Multiple source code examples for the most popular use cases, including payment and access are available.



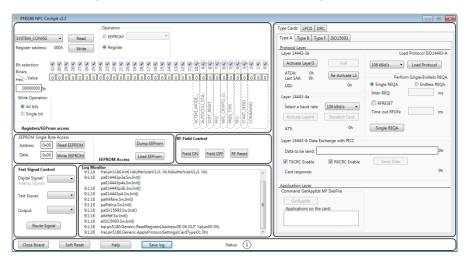




### NFC Cockpit - the complete design tool for engineers

#### **NFC Cockpit**

- It is a PC-based GUI that can be used to explore the IC functionality and perform RF and antenna design related tests.
- It can be used to optimize antenna tuning to perform the DPC calibration and the related Tx and Rx optimization without touching any source code.
- It allows direct register and EEPROM modification and fine tuning



### **Supported NFC solutions**

- PN5180 NFC frontend, delivering full NFC Forum compliance and high performance
- PN7462 NFC controller family, state of the art RF interface

Webinar session 18/10/2016

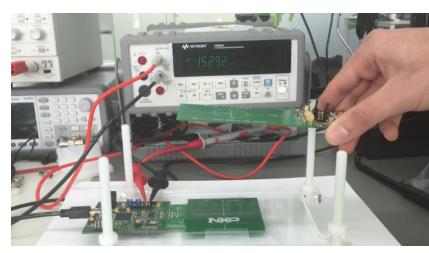


Fig1. DPC feature in action after calibration with the NFC Cockpit tool





# SUPPORT PACKAGE FOR NFC CONTROLLERS WITH EMBEDDED FIRMWARE



### OM5578: Development kits for PN7150 plug-and-play NFC controller

PN7150 demokits cover integration with **Raspberry Pi**, **BeagleBone Black** and any board with **Arduino-compliant** header (including LPCXpresso, Kinetis and i.MX boards)





#### Contents

- PN7150 NFC controller board
- · Arduino interface board
- NFC Forum Type 2 Tag

### **Ordering details**

- Orderable part number: OM5578/PN7150ARD
- 12NC: 935309078699
- URL: <a href="http://www.nxp.com/demoboard/OM5578.html">http://www.nxp.com/demoboard/OM5578.html</a>





#### Contents

- PN7150 NFC controller board
- · BeagleBone Black interface board
- NFC Forum Type 2 Tag

### **Ordering details**

- Orderable part number: OM5578/PN7150BBB
- 12NC: 935309077699
- URL: <a href="http://www.nxp.com/demoboard/OM5578.html">http://www.nxp.com/demoboard/OM5578.html</a>





#### Contents

- PN7150 NFC controller board
- Raspberry Pi interface board
- NFC Forum Type 2 Tag

#### **Ordering details**

- Orderable part number: OM5578/PN7150RPI
- 12NC: 935309076699
- URL: <a href="http://www.nxp.com/demoboard/OM5578.html">http://www.nxp.com/demoboard/OM5578.html</a>





### OM5577: Development kits for PN7120 plug-and-play NFC controller

PN7120 demokits cover integration with Raspberry Pi, BeagleBone Black and any board with Arduino-compliant header (including LPCXpresso, Kinetis and i.MX boards)







#### Contents

- PN7120 NFC controller board
- RaspberryPi interface board
- BeagleBone Black interface board
- NFC Forum Type 2 Tag

### **Ordering details**

- Orderable part number: OM5577/PN7120S
- 12NC: 935306352699
- URL: <a href="http://www.nxp.com/demoboard/OM5577.html">http://www.nxp.com/demoboard/OM5577.html</a>





#### Contents

- PN7120 NFC controller board
- Arduino interface board
- NFC Forum Type 2 Tag

#### **Ordering details**

- Orderable part number: OM5577/PN7120ARD
- 12NC: 935308904699
- URL: <a href="http://www.nxp.com/demoboard/OM5577.html">http://www.nxp.com/demoboard/OM5577.html</a>





### PN7150 Software images & examples vs hardware compatibility

**Development kits for PN7150 (OM5578)** 

#### **Development kit**

### Hardware platforms supported

### Software images and software examples available



OM5578/PN7150ARD PN7150 SBC Kit for Arduino



Any development board with an Arduino compliant header (e.g. LPCXpresso, Kinetis & Freedom boards, i.MX boards)







Linux SW image (for UDOO NEO board):

Android SW image (for UDOO NEO board):

OM5578 UDOO Neo Android Lollipop demo image

LPCXpresso SW example (LPC824, LPC11U37H, LPC1227 board)

NXP-NCI LPCXpresso example

Kinetis SW example (for FRDM-K64F board):

NXP-NCI Kinetis Design Studio examp



OM5578/PN7150RPi

PN7150 SBC Kit for Raspberry





Raspberry Pi

Linux SW image:

OM5578 PN7150 RPI Linux demo image

WinIoT SW image:

OM557x PN71x0 RPI2 WinIoT



OM5578/PN7150BBB

PN7150 SBC Kit for BeagleBone Black





BeagleBone Black

Linux SW image:

OM5578 PN7150 BBB Linux demo image

Android SW image:

OM5578 PN7150 BBB KitKat demo image





### PN7120 Software images & examples vs hardware compatibility

**Development kits for PN7120 (OM5577)** 

### **Development kit**



#### Software images and software examples available



### OM5577/PN7120S PN7120 SBC Kit for Raspberry Pi and BeagleBone Black







Hardware platforms supported

BeagleBone Black

Linux SW image:

Android SW image:



Raspberry Pi

Linux SW image:

WinIoT SW image:

OM557x PN71x0 RPI2 WinIoT



OM5577/PN7120ARD

PN7120 SBC Kit for Arduino



Any development board with an Arduino compliant header (e.g. LPCXpresso, Kinetis & Freedom boards, i.MX boards)







Linux SW image (for UDOO NEO board):

OM5577 PN7120 ARD UDOO Linux

Android SW image (for UDOO NEO board):

LPCXpresso SW example (LPC824, LPC11U37H LPC1227):

Kinetis SW example (for FRDM-K64F board):





### **MORE SUPPORT**



### More support material to get started with NFC demokits

Plenty of details on how to get started with our demokits and SW tools in our recorded sessions!



NTAG I<sup>2</sup>C *plus* – product support package http://www.nxp.com/support/online-academy/ntag-i<sup>2</sup>C-plus-product-support-package:NTAG-I<sup>2</sup>C-PLUS-PRODUCT-SUP-PCKG



PN5180 – product support package http://www.nxp.com/support/online-academy/pn5180-product-support-package:PN5180-PRODUCT-SUPPORT-PACKAGE



PN71xx – product support package http://www.nxp.com/support/onlineacademy/pn71xx-product-supportpackage:PN71XX-PRODUCT-SUPPORT



PN7462 – product support package http://www.nxp.com/support/online-academy/pn7462-product-support-package:PN7462-PRODUCT-SUPPORT-PACKAGE



### NFC antenna design support

AN11276 NTAG antenna design guide

AN14445 Antenna design guide for MFRC52x, PN51x, PN53x

AN11019 CLRC663, MFRC630, MFRC631, SLRC610 antenna design guide

AN11740 PN5180 antenna design guide

AN11564 PN7120 antenna design and matching guide

AN11755 PN7150 antenna design and matching guide

AN11706 PN7462AU antenna design guide

AN11741 How to design an antenna with DPC

AN11535 Measurement and tuning of a NFC and reader IC antenna with a miniVNA

Webinar session **28/09/2016** 



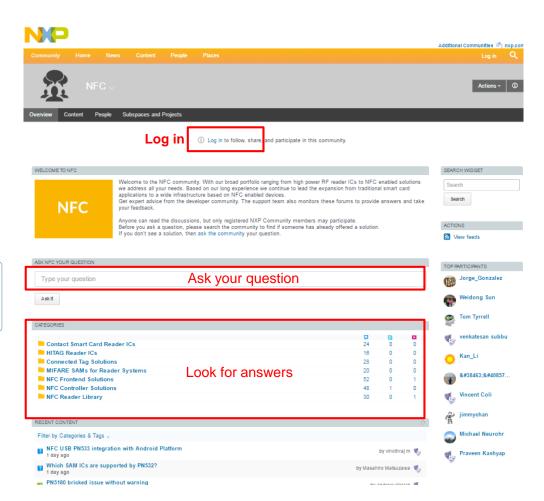
# Use our technical community for your questions

Become a registered member and get expert advice from the developer community

https://community.nxp.com/community/nfg

#### How to get there

- NFC and Reader Ics → NFC Technology hub → NFC support → NFC community
- URL: <a href="https://community.nxp.com/community/nfc">https://community.nxp.com/community/nfc</a>







### Watch on-demand any recorded session

Tap into our free on-demand training library.

Hundreds of hours of webinars and presentations on NXP products, applications, software, and tools.

Find recorded sessions, among others. for:

- NFC essentials
- NFC use cases
- NFC standards
- NFC reader antenna design (6 sessions)
- NFC reader portfolio
- NFC in smart home, gaming, payments.

. . . . .

### How to get there

- NFC and Reader ICs→ NFC Technology hub → NFC support → NFC webinars
- URL: http://www.nxp.com/support/online-academy/nfc-webinars:NFC-WEBINARS



**NXP Community** 

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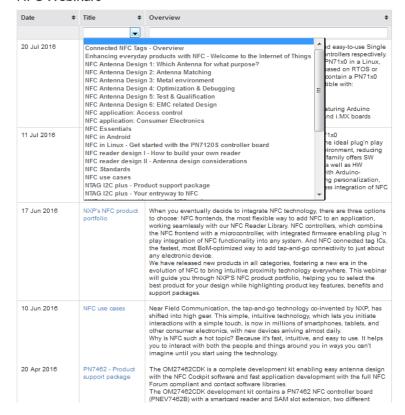
NXP Professional

Documentation

ALL \*

SUPPORT NXP > Online Academy > NFC Webinars

### NFC Webinars



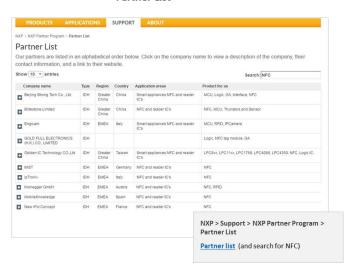




### Find the right partner



#### **Partner List**



### How to get there

- NFC and Reader ICs→ NFC Technology hub → NFC support → NFC IDH partners
- URL: <a href="http://www.nxp.com/pages/partner-list:PARTNER-LIST">http://www.nxp.com/pages/partner-list:PARTNER-LIST</a>





### More information about NFC

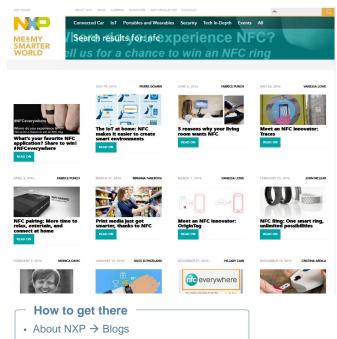
### Visit **NFC knowledge base** to get familiar with NFC technology ...



### How to get there

- NFC and Reader ICs→ NFC Technology hub → NFC knowledge Base
- URL: <a href="http://www.nxp.com/products/identification-and-security/nfc-and-reader-ics/nfc-technology-hub/nfc-knowledge-base:NFC-KNOWLEDGE-BASE">http://www.nxp.com/products/identification-and-security/nfc-and-reader-ics/nfc-technology-hub/nfc-knowledge-base:NFC-KNOWLEDGE-BASE</a>

Visit our **blog** for more news about NFC...



URL: <a href="http://blog.nxp.com/?s=nfc">http://blog.nxp.com/?s=nfc</a>





# OUR SUPPORT PACKAGE IN A NUTSHELL



### Reference boards and demokits

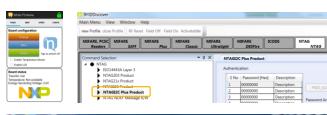
	Connected tags	NFC frontends				NFC Controller			
	NTAG I <sup>2</sup> C plus	PN512	SLRC610	MFRC630	CLRC663	PN5180	PN7120	PN7150	PN7462
Development boards		PNEV512B	CLEV633B	CLEV633B	CLEV633B	OM25180FDK			OM27462CDK
Single board Computer							OM5577/ PN7120S	OM5578/ PN7150ARD	
GRANT TRANSPORTED TO THE PROPERTY OF THE PROPE							OM5577/ PN7120ARD	OM5578/ PN7150BBB OM5578/	
								PN7150RPi	
Connected tag EXPLORER kits	OM5569/ NT322E								
NIGELIC EN LOND	OM5569/ NT322ER OM5569/ NT322EF								
Explore NFC		PNEV512R							



### Support for connected tags

#### **PC** tools

- Windows application for NTAG I2C plus Explorer board
- Peek and Poke
- RFID discover





#### **Development kit**

• NTAG I2C plus Explorer Kit





#### **Android applications**

- NTAG I<sup>2</sup>C demo app
- TagInfo
- TagWriter





### Source code examples

- NTAG I<sup>2</sup>C Explorer board C firmware
- NTAG I<sup>2</sup>C demo app Android app source
- NTAG I<sup>2</sup>C PC app source code



### **Documentation**

- Application notes
- User Manuals
- · Getting started guides



### **Development environment**

- LPCXpresso IDE for LPC MCUs
- MIFARE SDK









### **Support for NFC frontend solutions**

#### **NFC Reader Library**

- · Software support for NFC frontend solutions:
- Available for: PN512, CLRC663, PN5180, PN7462 and Linux



### **Documentation**

- Application notes
- User Manuals
- Getting started guides



#### **Development kits and demoboards**

- CLEV663B
- PNEV512R
- OM25180FDK
   PNEV512B



#### Source code examples

 SW examples based on NFC Reader Library demonstrating frontend capabilities



### **Development environment**

LPCXpresso IDE for LPC MCUs



#### **NFC Cockpit**

- A PC tool that ease design process, antenna tuning and register configuration
- (only for PN5180)







### Support for NFC controllers with integrated FW

#### Single board computer kits

• SingleBoard Computer (SBC) kits with interface boards for Arduino, Raspberry Pi and BeagleBone Black















### Compatibility with development boards

 Integration with any boards featuring Arduino-compatible header, including many LPC, Kinetis and i.MxX boards









### SW images and SW examples

• For Windows 10 IoT , Android, Linux, RTOS, NullOS together with illustrative NFC SW examples













#### **Documentation**

- Application notes
- User Manuals
- · Getting started guides



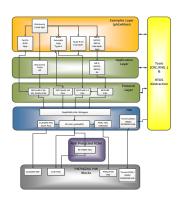


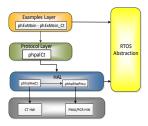


### Support for NFC controllers with customizable FW

### Fully customizable firmware

Based on the NFC Reader Library and NXP Contact Library





#### **Development kits**

 OM27462CDK NFC Controller development kit enabling easy and fast development of applications



### Source code examples

 SW examples based on contact and contactless SW libraries demonstrating NFC controller capabilities



### **Development environment**

- LPCXpresso IDE
- Keil and IAR tool chain



#### **Documentation**

- Application notes
- User Manuals
- Getting started guides



### **NFC Cockpit**

 A PC tool that ease design process, antenna tuning and register configuration



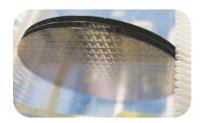




### NXP is the right choice for your design

### We have the technology





We are NFC





We share our know-how



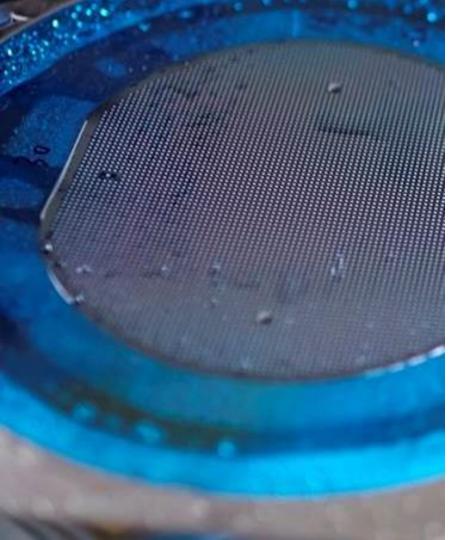


We enable easy design-in









### **Next sessions**

**Design and implement NFC applications** 

Session I, 7th September

Product support package for NXP NFC readers

https://attendee.gotowebinar.com/rt/2329750067403618817

Session II, 28th September

Antenna design considerations for NXP NFC reader solutions

https://attendee.gotowebinar.com/rt/282682617345186049

Session III, 18th October

The NFC Cockpit - the complete design tool for engineers https://attendee.gotowebinar.com/rt/4665515186055692545

Session IV, 31th October

NFC Reader Library - SW support for NFC frontend solutions

https://attendee.gotowebinar.com/rt/7151741873899128067





Software development in Android and iOS

Embedded software for MCUs

JCOP, Java Card operating Systems

Hardware design and development

Digital, analog, sensor acquisition, power management

Wireless communications WiFi, ZigBee, Bluetooth, BLE

Contactless antenna RF design, evaluation and testing

**MIFARE** applications

End-to-end systems, readers and card-related designs

**EMVco** applications

Readers, cards, design for test compliancy (including PCI)

**Secure Element management** 

GlobalPlatform compliant backend solutions

Secure services provisioning OTA, TSM services



We help companies leverage the mobile and contactless revolution



### MobileKnowledge

Roc Boronat 117, P3M3 08018 Barcelona (Spain)

Get in touch with us www.themobileknowledge.c











### **Design and implement NFC applications**

**Session 1: Product support package for NXP NFC readers** 

Jordi Jofre (Speaker) Angela Gemio (Host)

### Thank you for your kind attention!

Please remember to fill out our evaluation survey (pop-up)

Check your email for material download and on-demand video addresses

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