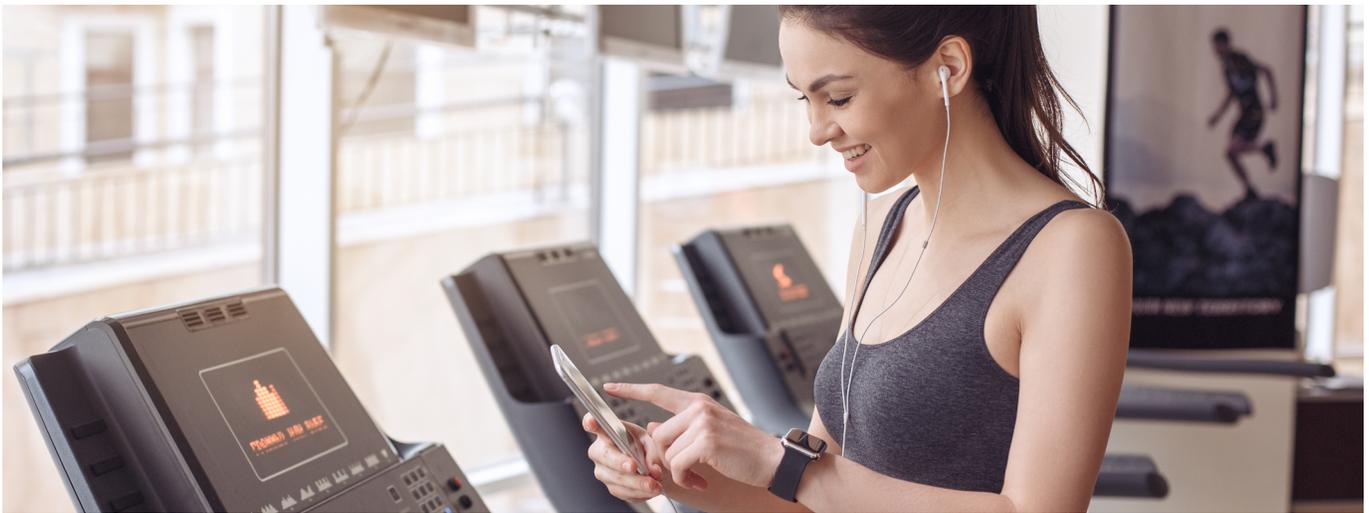# PLUG-AND-PLAY PN7150X NFC SOLUTION WITH SUPPORT FOR APPLE ENHANCED CONTACTLESS POLLING (ECP)

Optimized for fast design-in, the NXP PN7150X NFC solution has a high-performance NFC controller IC with NCI interface. This solution supports all NFC Forum modes and includes Linux®and Android™.

KEY BENEFITS

- Features Apple Enhanced Contactless Polling
- Full hardware and software compatibility
- Support for Linux, Android, RTOS, Bare Metal
- Arduino® compatible interface

ALL NFC OPERATING MODES

- Read/Write mode: ISO/IEC 14443 A&B up to 848 kbit/s, FeliCa® at 212 and 424 kbit/s, MIFARE® 1K, 4K NFC Forum type 1, 2, 3, 4, 5 tags, ISO/IEC 15693
- All peer–to–peer modes
- Card emulation mode (from host): NFC Forum T4T (ISO/IEC 14443 A&B) at 106 kbit/s, NFC Forum T3T

FLEXIBLE HOST INTERFACE

- Supply voltage: 1.8 to 3.3 V
- I²C interface: 3.4 Mbit/s
- NCI 1.0–compliant protocol
- IRQ signal for improved synchronization

COMPLETE POWER-EFFICIENT NFC CONTROLLER

- RF driver: 3.0 to 4.75 V, 180 mA max
- NFC Forum device requirement: v1.3
- Fully configurable polling loop with low-power mode
- Active load modulation

STANDARD PACKAGE: HVQFN40

EASY INTEGRATION

Linux and Android software drivers ease integration and reduce time-to-market. For no OS and RTOS integration, NXP supplies a set of code examples running on our industry-leading microcontrollers.

DEVELOPMENT KIT

• With Arduino header OM27151ARD

ORDERING SOURCE

Order from one of Apple's authorized distributors of MFi-licensed components and development tools.

DOCUMENTATION, SOFTWARE AND RESOURCES TO GET STARTED

All resources that are required to get started can be taken from the PN7150 product page.[2]

OBTAINING PN7150X SPECIFIC DOCUMENTATION

All PN150X specific documentation is controlled and can be downloaded via NXP DocStore.[1] These are:

• PN7150X data sheet – DS4358xx

• User Manual PN7150X – UM4338xx

• PN7150X Frequently Asked Questions – AN4405xx
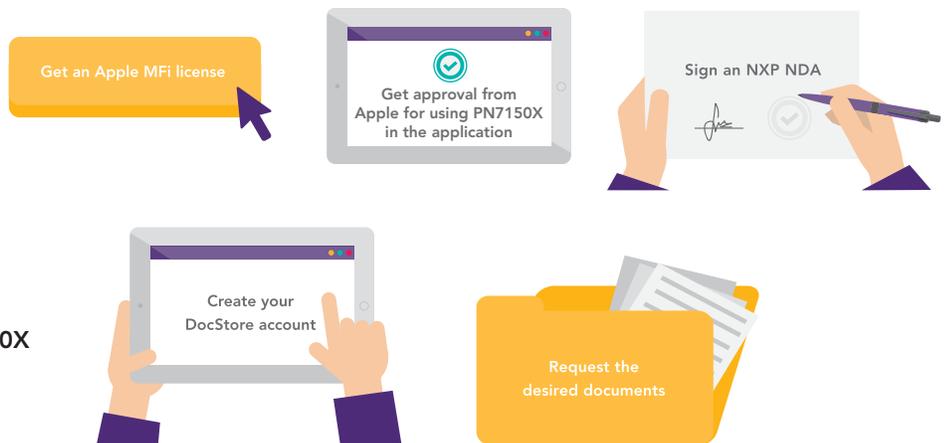
REFERENCES

PN7150X product page
https://www.nxp.com/products/:PN7150X

[1] NXP DocStore
https://www.docstore.nxp.com

[2] PN7150 product page (incl. documentation)
https://www.nxp.com/products/:PN7150B0HN

Symbolic picture of development kit OM27151ARD with PN7150X NFC controller.

ORDERING INFORMATION

PN7150X IN HVQFN	PACKING REEL	PACKING TRAY	ECP
PN7150B0HN/C11003	PN7150B0HN/C11003 9353 514 66518 MOQ: 4kp	PN7150B0HN/C11003 9353 514 66551 MOQ: 490p	Yes
PN7150B0HN/C11005	9354 006 89518 MOQ: 4kp	9354 006 89551 MOQ: 490p	C11005 supports ECP with latest updates

Get an Apple MFi license

Get approval from Apple for using PN7150X in the application

Sign an NXP NDA

Create your DocStore account

Request the desired documents

nfc everywhere