ANALOG & MIXED SIGNALS

DSP & MPU

MCU & PERIPHERALS

MEMORY

OPTOELECTRONICS

POWER DISCR. & MODULES

POWER MANAGEMENT

PROGR. LOGIC & INTERFACE

SENSOR

WIRED COMM.

WIRELESS COMM.

EBV INTRODUCES PN7150
Plug'n Play High Performance Full NFC Solution

PN7150 is a full NFC controller solution with integrated firmware and NCI interface. PN7150 is the new plug'n play and high performance full NFC solution from NXP, in addition to the well-established PN7120. This NFC controller with embedded firmware and NCI interface, takes designs to the next level, with the addition of higher output power, for longer reading distance and smaller antenna size, as well as standard HVQFN40 package, for lower-cost manufacturing. Optimized for fast design-in, PN7150 is accompanied by Linux, Android, and WinIoT drivers, and support the most popular platforms, including Raspberry Pi, BeagleBone Black as well as any boards featuring an Arduino compatible header (Kinetis, LPCXpresso, i.MX boards, etc.).

KEY FEATURES

Full HW and SW compatibility

- Support for Linux, Android, Windows IoT, RTOS, NullOS
- Interface to RasperryPi, BeagleBone Black, and all boards with Arduino-compatible header

All NFC operating modes

- Read/Write Mode: ISO/IEC 14443 A&B up to 848 kbit/s, FeliCa at 212 & 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 (FeliCa)

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 control

- 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
- Load modulation scheme: active
- Standard packages: HVQFN40

KEY BENEFITS

- Seamless integration of NFC into any application, especially those with OS systems
- Plug-and-play NFC operation with many platforms, including most LPC, Kinetis and i.MX boards
- All typical NFC use cases, including pairing, personalization, extended user interface, maintenance, etc.
- Fast deployment of advanced, fully interoperable NFC functionality, with a lower overall cost.

APPLICATION EXAMPLES

- Gateways, routers
- Set-top boxes
- Audio
- Home appliances
- Healthcare/Medical
- Accessories

OM5578_PN7150_Arduinokit

EBV presents OM5578