Development Board for PN7220 NFC Controller for EMVCo and NFC Forum Operation
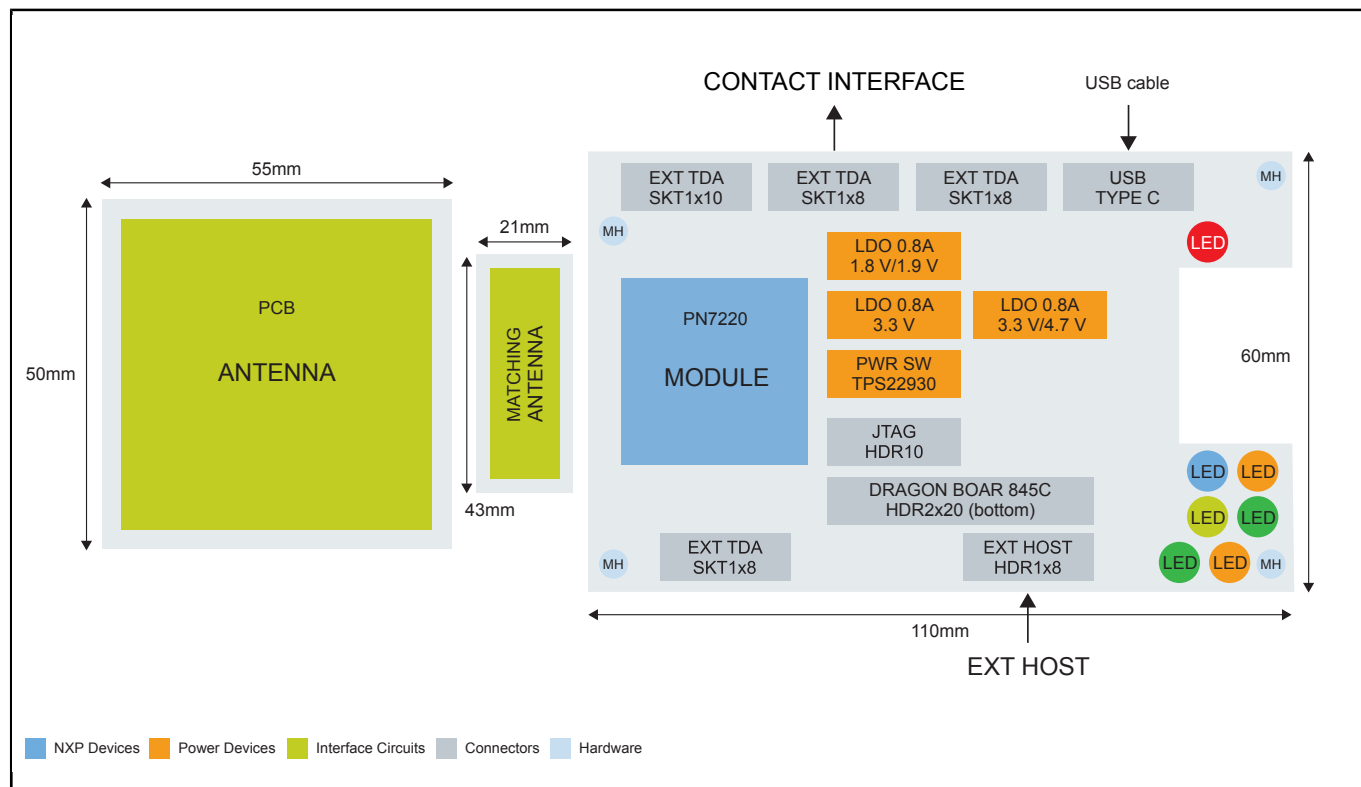
PNEV7220BP1

Last Updated: Dec 23, 2025

PNEV7220BP1 is a flexible and easy-to-use development board which can be connected to a i.MX 8 microcontroller running Android. The PNEV7220BP1 supports the design cycle of contactless payment terminals based on Android - NFC Forum and EMVCo 3.x applications can be quickly evaluated. The board is implementing the PN7221 which is backward-compatible with the PN7220.

With PN7220, POS manufacturers can expand their products to the new SoftPOS payment device category. With an EMV Level 1-compliant performance, PN7220 provides high performance to the user, while the NCI interface offers seamless integration into Android.

PNEV7220BP1 Block Diagram

CONTACT INTERFACE

USB cable

| EXT TDA SKT1x10 | EXT TDA SKT1x8 | EXT TDA SKT1x8 | USB TYPE C | MH |

PN7220 MODULE

LDO 0.8A 1.8 V/1.9 V

LDO 0.8A 3.3 V

LDO 0.8A 3.3 V/4.7 V

PWR SW TPS22930

JTAG HDR10

DRAGON BOAR 845C HDR2x20 (bottom)

EXT TDA SKT1x8

EXT HOST HDR1x8

55mm · 50mm · 21mm · 43mm · 60mm · 110mm

PCB ANTENNA · MATCHING ANTENNA

LED

EXT HOST

Legend:
- NXP Devices
- Power Devices
- Interface Circuits
- Connectors
- Hardware

View additional information for Development Board for PN7220 NFC Controller for EMVCo and NFC Forum Operation.

Note: The information on this document is subject to change without notice.