



OM25180FDK: PN5180 NFC Frontend Development Kit for POS Terminal Applications

Overview

OM25180FDK is a flexible and easy to use frontend development kit for PN5180. It contains a PNEV5180B board with 65 mm x 65 mm antenna optimized for EMVCo applications, a 30 mm x 50 mm antenna with matching components optimized for NFC applications, three small antenna matching PCBs (appr. 30 mm x 50 mm sized) for implementation of a custom antenna matching circuit, an NFC sample card based on NTAG216F (NFC Forum Type 2 Tag) and 10 PN5180 samples in HVQFN package.

Features

- Highest RF performance
- Full compliance with all standards relevant to NFC, contactless operation and EMVCo
- Onboard Dynamic Power Control (DPC) for optimized RF performance
- Active load modulation, boosting small antenna performance in Card Emulation Mode
- Low-power card detection
- Artificial damping of the RF field in the middle of the antenna simulating the presence of a PCB or display to demonstrate the expected performance

Supported Devices

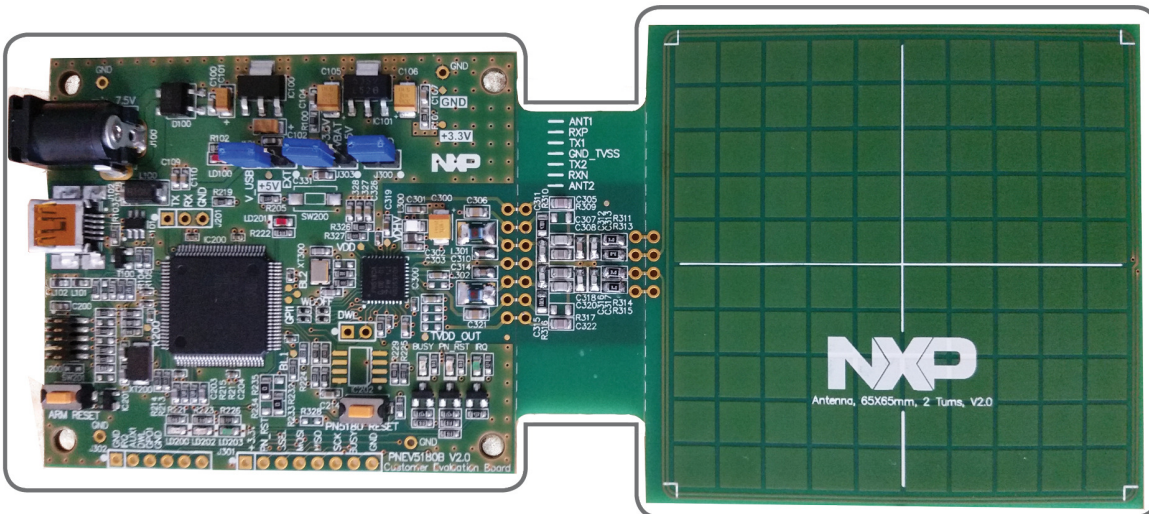
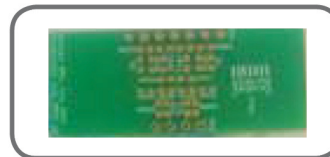
- [PN5180A0ET](#): High-performance multi-protocol full NFC Forum-compliant frontend
- [PN5180A0HN](#): High-performance multi-protocol full NFC Forum-compliant frontend

PN5180 NFC Frontend Development Kit OM25180FDK



This powerful and flexible PN5180 NFC Frontend Development Kit contains:

- ▶ PNEV5180B board with 65x65mm antenna
- ▶ 30x50mm antenna with matching components
- ▶ 3 PCBs for individual antenna matching
- ▶ NFC sample card based on NTAG216F (NFC Forum Type 2 Tag)
- ▶ 10 PN5180 samples in HVQFN package



Samples

For additional information please visit: www.nxp.com/demoboard/OM25180