Operating at 13.56 MHz, this highly integrated, pin-compatible, and microcontroller-based transmission module provides USB-enabled devices with the most widely deployed contactless communication protocols, including NFC.

### Key features
- Reader/writer functionality compatible with ISO/IEC 14443 A&B, MIFARE™, FeliCa and NFC Forum tag types (Jewel, MIFARE Ultralight™, FeliCa, MIFARE DESFire™)
- Full peer-to-peer functionality (ISO/IEC 18092 NFC IP1)
- Card emulation functionality
- Operating distance up to 70 mm*
- Optimized 80C51 core processor with embedded firmware in ROM
- Integrated MIFARE reader support
- USB 2.0 host interface, serial host interface (High speed UART)
- Firmware complies with German eID and Paypass certifications
- PC/SC driver is WHQL pre-certified

### Key benefits
- Fast design-in
- USB host interface, serial host interface
- WHQL Certified USB Drivers for PC available (PC/SC)

### Target segments
- PC integration, PC peripheral
- Embedded devices for industrial and medical applications

*Depends on antenna device and device integration
Design-in kit
To support product development and enable easy access to PN533 and NFC technology, NXP offers the OM5588/N5331U01 design-in kit. Equipped with all the necessary hardware, software sources, and documentation, it includes two reference PN533 boards, cables, and power supply. A reference implementation for the NFC Forum's protocol stack is also available. WHQL Certified PC/SC drivers support fast design-in of the PN533.

MIFARE pedigree
NXP MIFARE is the leading technology platform for contactless ticket, card, and reader solutions. With more than 40 million core reader components, two billion cards, and one billion smart ticket ICs sold, MIFARE is a proven and reliable technology, which represents the largest installed base worldwide.

To order samples or design kits, please contact a local NXP distributor (www.nxp.com) or access the NXP distributor portal (https://extranet.nxp.com).

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