



OM5569

Demoboard for NFC connected tag chips

Demo board description

The NTAG I²C Demo Kit is a simple all-in-one demonstrator kit for NFC connected tag chips. It enables the end user to demonstrate the basic principle of dual interface communication (NFC/I²C) as well as also developing and testing their own applications while being to explore all NTAG I²C features.



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Features

- **Main Board:** A dual purpose demonstration and development hardware board based on the NXP LPC 812 microcontroller with NXP PCT2075 temperature sensor, I²C serial bus connector, and JTAG debug connector to demonstrate bi-directional I²C serial bus/NFC communication, monitor energy harvesting capability and provide a localized application development environment
- **Class 5 Antenna Board:** NTAG I²C tag chip mounted on a class 5 antenna FR4 PCB-based with separate antenna pads for custom antenna use and with built-in I²C serial bus interface
- This set of hardware are complemented by an Android App available on Playstore for a complete interaction with an NFC enabled phone
- Thanks to the on-board JTAG connector of the Main Board, the addition of the LPC-Link2 Debugger probe kit (OM13054) allows easy debugging of code ported directly into the NTAG I²C Demo Kit, facilitating custom applications

Descriptive Summary

Benefits:

- Ready-to-use demonstrator to showcase NFC interaction with electronics devices
- Complete set of tools to evaluate NTAG I²C features and develop own applications from both microcontroller and NFC side

Applications:

- NFC accessories (headsets, speakers, etc.)
- Wearable infotainment
- Fitness equipment
- Home automation
- Consumer electronics
- Healthcare
- Smart printers
- Meters
- Home appliances
- Electronic shelf labels