OPTIGA™ Authenticate NBT

NFC-I2C bridge tag for contactless authentication and secured configuration of IoT devices
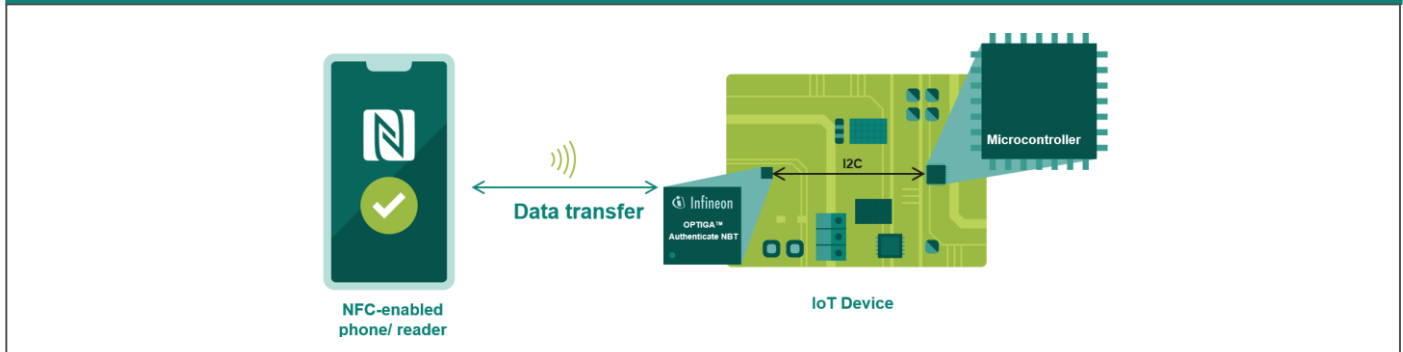
Infineon

Introduction

OPTIGA™ Authenticate NBT is a high-performance NFC-I2C bridge tag for secured contactless device authentication and configuration.

Product features

- NFC Forum Type 4 Tag
- TEGRION™ hardware
- Common Criteria EAL 6+ certification (for hardware and crypto library)
- Java card OS and applets, I2C
- 8 KB user NVM
- 106 up to 848 Kbit/s contactless, 1Mbit/s on the I2C interface
- Multi-security options (ECDSA-based asymmetric cryptography, AES128-based symmetric cryptography)
- 78 pF on-chip tuning capacitance

Product benefits

- Superior security
- Open standards
- Ample memory
- Ultra-fast data transfer
- Multiple security options
- Small antenna form factor
- Chip-individual pre-provisioning
- Compliant & certified

System diagram

NFC-enabled phone/ reader — Data transfer — IoT Device — I2C — Microcontroller

Target applications

Industrial |Healthcare | Smart home | Smart city | Shared mobility & LEVs | Smart personal devices

More information & tools to get started

Product webpage