LEGIC
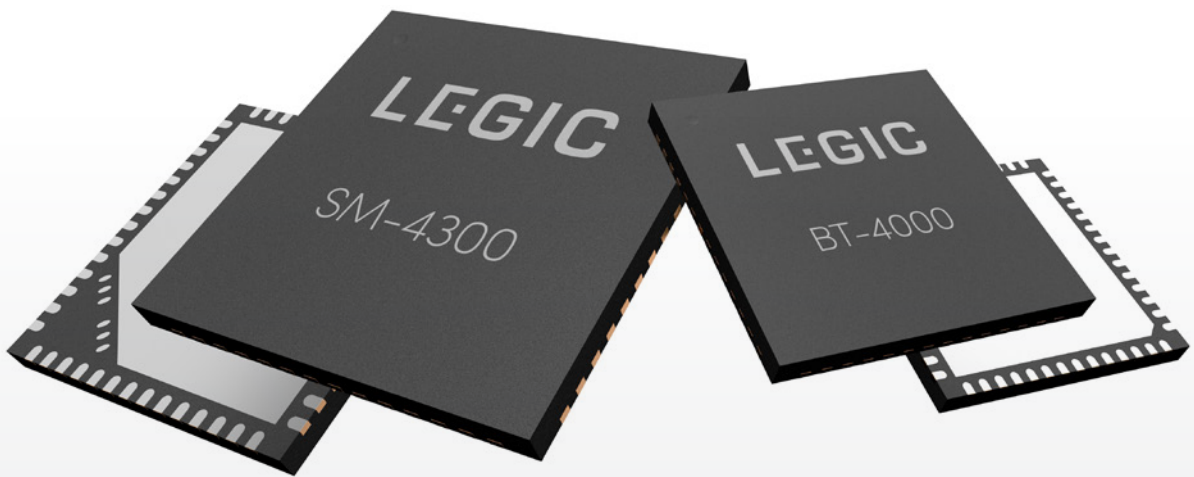
Secure identification with multi-technology reader chipset

Empower yourself for ID and IoT solutions.

LEGIC's Security Chipset SC-4300 is the latest member of our proven LEGIC 4000 series reader ICs. This innovative, state-of-the-art reader chipset supports various RFID standards as well as BLE and NFC-HCE to communicate to smartphones.

Multi-technology reader chipset

Exploit the possibilities of mobile ID while keeping your readers RFID enabled. Together with the LEGIC Connect trusted service and the software development kits for smartphone apps, the SC-4300 is part of LEGIC's powerful solution suitable for ID and IoT applications.

Mobile ID features and benefits:

- Mobile credentials for Android and iOS
- Large reading distance with BLE
- End-to-end security
- AES 128 bit encryption
- Key diversification
- Similar LEGIC commands for mobile ID and RFID (high technology abstraction)

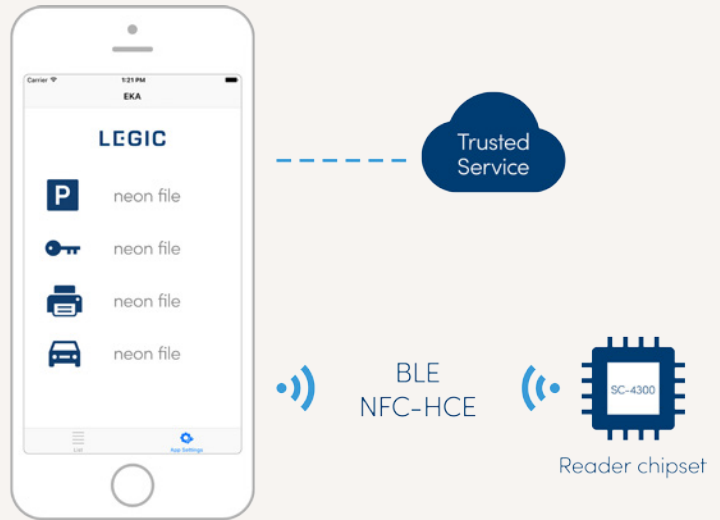## LEGIC technology for smartphone apps

- Over-the-air credential (neon file) deployment via LEGIC Connect
- Multiple neon files for diverse applications possible
- High protection of credential data as keys are only stored in LEGIC Connect and SM-4300 (end-to-end security)
- LEGIC mobile SDKs for iOS and Android mobile app development

Evaluation Kit EK-4300

The EK helps you to become familiar with LEGIC's BLE, NFC and RFID solutions.

- Evaluation of the SC-4300 functionality
- Design example of line-powered reader
- Access to mobile apps (iOS, Android)
- Use LEGIC prime and advant transponders
- Access to MIFARE transponders
- Key & authorization management with LEGIC Orbit and Master-Token System-Control

Technical data

SC-4300 (consisting of SM-4300 and BT-4000)	
Bluetooth Smart	- V4.2 BLE (Bluetooth Low Energy) - Communication to mobile apps based on LEGIC Mobile SDK or to third-party BLE devices
NFC peer-to-peer	ISO 18092*
RFID	ISO 15693 ISO 14443 A + B LEGIC RF standard Inside Secure** Sony Felica*** ST SR series
RFID security elements	- Master-Token System-Control - Mutual authentication - NXP key diversification - AES 128 / 256 bit, 3DES, DES, LEGIC encoding
Energy saving options	- Stop mode: typically 3 µA - Watch mode with RFID based wake-up: typically 20 µA
Wake-up	RFID based proximity detection (< 10 cm) of smartcards or smartphones
Access to LEGIC neon file via BLE or NFC-HCE	- Mutual authentication - Key diversification - Data encryption with end-to-end security from LEGIC Connect to SM-4300 - Application-specific AES 128 bit keys, optional use of LEGIC Orbit for key generation and distribution
Host interface	- UART with 38,400 or 115,200 baud (RS232 timing) - SPI slave mode 1 or mode 3 - Authentication and encryption (optional)
Firmware download	Yes

* ISO 18092 Passive Peer-to-Peer Mode - Initiator, NFC Tags 2, 3, 4
** Reads the transponder unique ID (UID/CSN) of Inside Secure based technology, such as HID iClass
*** Encoding is not integrated

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