

SC-4300M with Bluetooth Smart

Secure identification with multi-technology reader chipset



LEGIC's Bluetooth Smart Security Chipset SC-4300M is the latest member of our proven LEGIC 4000 series reader chips. This innovative, state-of-the-art reader chipset facilitates the communication with a smartphone.

Exploit the possibilities of Bluetooth Smart while keeping your readers NFC and RFID enabled.

Together with the LEGIC Connect trusted service and the software development kits for smartphone apps, the SC-4300M is part of LEGIC's powerful solution suitable for smart applications.

BLE Features

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

LEGIC technology for Smartphone Apps

- Over-the-air credential deployment via LEGIC Connect
- Multiple applications possible
- No manipulation of application data as keys are only stored in LEGIC Connect and SM-4300M (end-to-end security)
- LEGIC SDKs for iOS and Android mobile app development



Evaluation Kit EK-4300

The EK-4300 helps you to become familiar with LEGIC's BLE, NFC and RFID solutions.



- Evaluation of the SC-4300M functionality
- Design example of line-powered reader
- Access to iPhone test app
- Access to prime and advant transponders including Master-Token System-Control
- Access to Mifare transponders

Technical Data of Security Chipset SC-4300M

SC-4300M (consisting of SM-4300M and BT-4000)	
Bluetooth Smart	V4.2 BLE (Bluetooth Low Energy)
NFC	ISO 18092*
RFID	ISO 15693** ISO 14443 A + B LEGIC RF standard Sony Felica***
Host interfaces	- SPI or UART - RS232 (logic level) - Authentication and encryption (optional)
BLE security elements	- Mutual authentication - Key diversification - Data encryption with end-to-end security from LEGIC Connect to SM-4300M - AES 128 bit
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 μ A - Watch mode with RFID based wake-up: typically 20 μ A
Wake-up	RFID based proximity detection (<~10 cm) of cards or smartphones
Software download	Yes
BLE reading distance	Up to ~70 m, configurable down to a few meters
BLE mobile devices	- iPhone \geq 4S, iPad \geq 3, iPad mini - Android \geq 4.3

* ISO 18092 Passive Peer-to-Peer Mode - Initiator, NFC Tags 2, 3, 4

** Also reads the transponder unique ID (UID/CSN) of Inside Secure based technology, such as HID iClass

*** Sony Felica encoding is not integrated



THE ID NETWORK

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