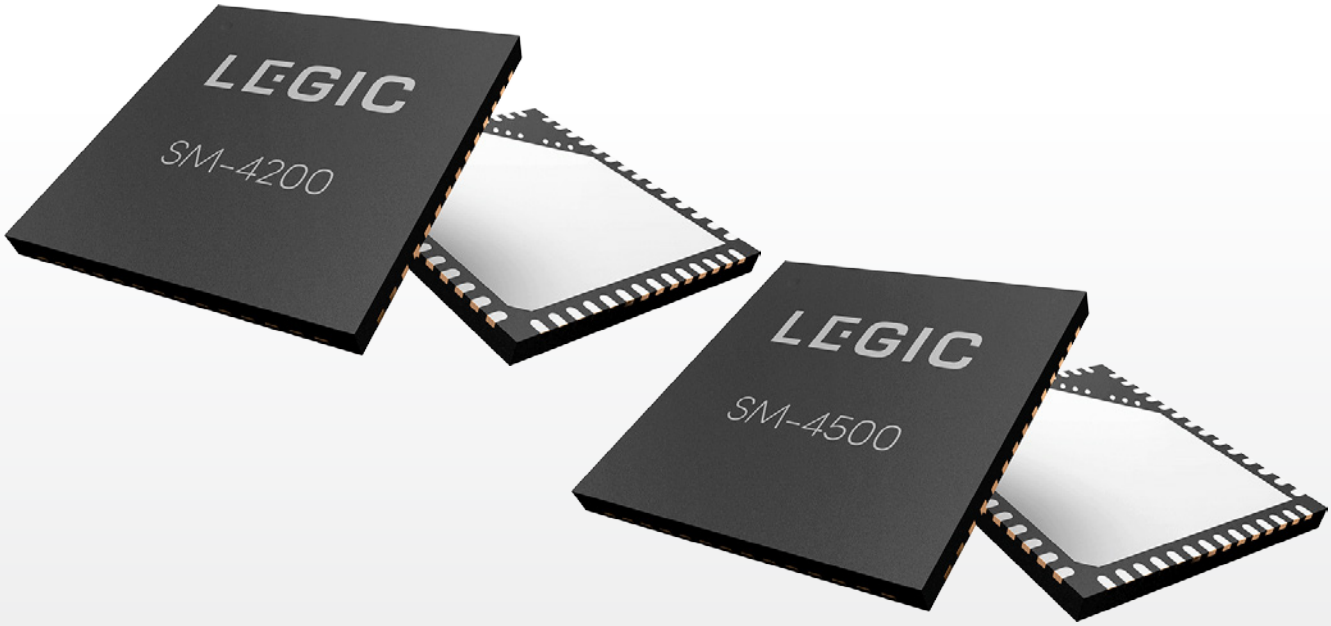
LEGIC

SM-4200 and SM-4500

Compact reader ICs for secure contactless solutions



The right choice for your RFID solutions

The SM-4200 and SM-4500 reader ICs support all common RFID standards. Their compact size and patented wake-up circuitry make them the right choice for all kind of applications.

Interoperability with many different smartcards
In addition to LEGIC advant and prime, the SM-4200 and SM-4500 support many third-party transponders. With their integrated key storage and NXP key derivation, secure usage and full compatibility with existing MIFARE installations can be achieved.

Endles range of applications

Combine and manage applications according to your needs with the LEGIC technology platform. Up to 127 applications can be stored securely on a smartcard or a credit card. The system is also expandable and can be customized to meet individual needs.

Master-Token System-Control

The patented LEGIC Master-Token System-Control is a unique security concept. Instead of protecting administrative rights with volatile passwords, security is bound to a specific physical smartcard. The owner of this Master-Token thus has full control over an installation and is independent. The SM-4200 and SM-4500 fully support multi-application. Thanks to their high performance, their operation is simple and secure.

Evaluation Kit EK-4000

The EK-4000 Evaluation Kit helps you with the quick and cost-efficient design-in of a LEGIC 4000 series reader IC into battery-operated and line-powered readers.

- Evaluation of the LEGIC 4000 series
- Introduction to the 4000 series instruction set
- Design examples of battery-operated and line-powered readers
- Access to the unique LEGIC Master-Token System-Control
- Use of LEGIC prime and advant smartcards
- Access to MIFARE smartcards

Technical data

SM-4200 and SM-4500	
RFID	▪ ISO 15693 ▪ ISO 14443 A + B ▪ LEGIC RF standard ▪ Inside Secure* ▪ Sony Felica**
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 3µA ▪ Watch mode with card-based wake-up: typically 20µA
NFC peer-to-peer	ISO 18092***
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

SM-4500	
Advanced functions	▪ LEGIC card initialization ▪ Master-Token generation ▪ LEGIC cash

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

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