



LEGIC®

innovation in ID technology



SM05-ST (Standard)
SM05-SE (E-Ticketing)
SM05-SC (Cash-Applications)
SM05-SX (E-Ticketing & Cash Applications)

The extremely compact LEGIC prime plus family is ideally suited for all applications where only little space is available and high performance is required.

Apart from the basic functions, which include full multiapplication capability, LEGIC prime plus can meet the special requirements of electronic cash handling and e-ticketing, depending on the product version.

Description

All SM05 of the LEGIC prime plus family feature a built-in HF part which transmits the energy and digital data to the data carrier and also receives data from the data carrier. Also integrated is a digital part which encodes and decodes the data, executes the modulation and demodulation and converts the various interfaces to the application computer.

LEGIC® prime plus Security Modules

A sophisticated and unique security concept, which includes authentication, authorisation, data organisation, write and read protection and system configuration, offers you many benefits.

Extended functions for e-ticketing and/or cash handling applications are firmly integrated in the hardware and ideally meet the requirements of such applications. These extended functions are available in the SM05-SE, SM05-SC and the SM05-SX.

Characteristics

- Smallest dimensions
- No additional components required
- Multiapplication capability: Direct access to specific segments (applications) via freely selectable search criteria
- Non-erasable and not reproducible unique number and licensee identification
- In-built security via encrypted data transfer through hardware and software-controlled coding procedure
- Selectable transmission speed
- Software-activated stand by mode
- Controllable HF power output
- Easy integration through simple software commands

- Standardised antenna output impedance
- Four freely usable digital inputs and outputs
- System configuration via system authorisation cards
- Dynamic segmentation for e-ticketing and extended functions for cash-handling applications
- Integrated shadow memory management and high-level commands

Specifications

- **Transmitting frequency:** 13.56 MHz
- **Max. read-/write distance:** up to 10 cm depending on antenna
- **Power supply:** DC 3 ... 5.5 V
- **Output impedance:** 50 Ohm
- **Operating temperature:** -25 ... 85 °C
- **Interfaces:** serial asynchronous/synchronous, Omron (MAG), NSI
- **PLCC 52 case** (20 x 20 x 5.3 mm), made of ceramics
- **EN 300 330 and CE conform**