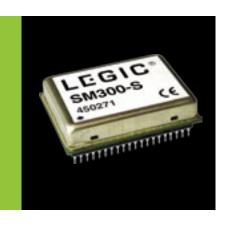# LEGIC ®

prime innovation in ID technology

With its long read/write range, the SM300-S is ideally used for hands-free applications such as access to leisure facilities and buildings, providing high security and maximum comfort to its users.

Description

The components contained in the powerful security module SM300-S fulfil the following tasks:

HF Part
- **Sending of the energy and digital data to the LEGIC data carrier**
- **Receiving of the data from the data carrier**

Digital Part
- **Encodes/decodes the transmitted data**
- **Modulation/demodulation**
- **Converting of the various interfaces to the application computer**

Security Module SM300-S

Sophisticated security concept, controlled through
- **Authentication**
- **Authorisation**
- **Data organisation,**
- **Read-/write protection**
- **System configuration**

Characteristics

- Compact design
- High power output for hands-free applications
- Pin compatible with SM100-S
- No external components needed
- Multiapplication capability: Direct access to 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
- Controllable HF power output
- Easy integration through simple software commands
- Standardised antenna output impedance
- System configuration via system authorisation cards

Specifications

- **Transmitting frequency**: 13.56 MHz
- **Read-/write distance**: 40 ... 70 cm (depending on requirements of national spectrum management authorities, antenna, medium and surroundings)
- **Power supply**: DC 0 ... 18 V
- **Antenna impedance**: 50 Ohm
- **Power output**: 0 ... 8 W
- Operating temperature: - 20 ... 85 °C
- **Interfaces**: serial asynchronous (RS232C), Omron (MAG)
- **CE- and EN 300330 conform**
- SW compatible with SM100-S and SM05-S
- Protection diode for power surges
- Connections and signals for controlling of a multiplexer are already built in
- DIL 40 - case