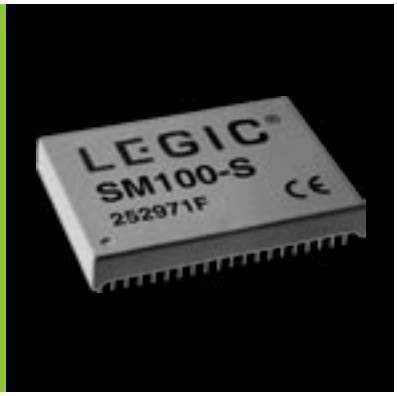
L1-01-004b-en [02.2003]

LEGIC®
prime innovation in ID technology



Security Module SM100-S

Due to the highly integrated SM100-S' longer read/write range, it is used for such appli-cations as paid access to leisure facilities, public transport, etc.

Description

The components contained in the highly integrated security module SM100-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 appli-cation computer**

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

Characteristics

- High power output for medium-range applications
- No additional components needed
- 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
- System configuration via system authorisation cards

Specifications

- **Transmitting frequency**: 13.56 MHz
- **Max. read-/write distance**: up to 30 cm depending on antenna
- **Power supply**: DC 4 ... 6 V
- **Output impedance**: 50 Ohm
- **Power output**: 250 ... 550 mW
- **Operating temperature**: -25 ... 85 °C
- **Interfaces**: serial asynchronous/synchronous, Omron (MAG), NSI
- **DIL case** (54 x 39 x 7 mm)
- **Number of Pins**: 40
- **Distance between pins**: 2.54 mm
- **EN 300 330 and CE conform**

Headquarter
LEGIC® Identsystems Ltd. Switzerland
Phone +41 1 933 64 64, Fax +41 1 933 64 65
info@legic.com

Asia
Phone +852 2406 2339
Fax +852 2406 2602
infoasia@legic.com

Germany
Phone +49 2303 870 829
Fax +49 2303 870 879
infode@legic.com

U.K.
Phone +44 7876 254 607
infouk@legic.com

www.legic.com