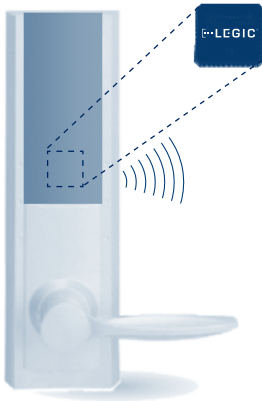



 ■ ■ ■ ✓ Convenient access – ready to use


LEGIC lockstar for door locks

LEGIC lockstar for electronic door locks

The single chip solution for contactless stand-alone locks.

The LEGIC lockstar for stand-alone door locks is designed for low space, battery powered lock solutions operated with ISO 15693 contactless smart cards. It is particularly suited for cost efficient lock applications like residential and commercial locks.

Integrated in a single chip combines the LEGIC lockstar RF interface and lock application. Included is the entire peripheral control and an access list for 50 users. Unmatched battery lifetime result from the integrated card based RF wake-up. The contactless emergency operation mode enables to operate the lock even in case of lost lock supply.

Standards



ISO

contactless
technology

Key applications

stand-alone
door locks

access

Typical use

- Stand-alone commercial / residential door locks
- Sports lockers, medical cabinets, jewelry display cases, ...
- Cost sensitive and high volume locks

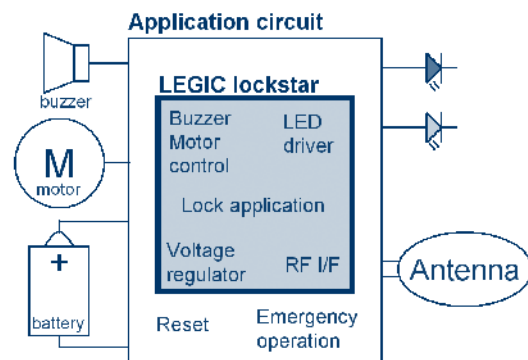
Key features

- Ready to use lock application integrated in a single chip
- All contactless operation for highest user convenience
- Directly drives peripherals
- Ultra low power consumption for unmatched battery lifetime



Features

- RF standard: reads ISO 15693 transponder UID
- Security: with anti-playback mechanism and password protected configuration
- Lock application: single chip solution ready to use
- Access rights: easy to handle with two master levels for user enrolment
- White list: access for 50 users
- Two time zones: allows user specific access rights
- Peripheral drivers: for LEDs, buzzer and motor
- Application parameters: configurable via air interface
- Integrated voltage regulator: supply voltage from 2 V .. 3.8 V
- RF wake-up: for high user comfort and energy saving
- Low power consumption: one battery EL123 lasts for 50k – 70k openings
- Low battery warning: for in time change of battery
- Contactless emergency operation mode: enables lock operation even in case of loss of power
- Smallest lock design: chip size: 7 x 7 mm / application circuit size: 18 x 16 mm



Specifications

Carrier frequency	13.56 MHz	Motor driver (with appli. design)	H-bridge, 350 mA max.
Contactless RF standards	ISO 15693, UID only, with anti-playback	Buzzer driver (with appli. design)	PWM, f= DC/0.5 – 4.3 kHz, 100 mA max.
Operating voltage (with appli. design)	2 to 3.8V DC	Operating temperature	-20 °C to 70 °C
Power consumption (with appli. design)	60 mA in RF active mode 22 µA in watch mode	Conformity	CE, FCC
Digital input	1 input, e.g. for manual wake-up	Chip Package	MLF48 (7 x 7 x 1 mm)
LED driver (with appli. design)	2 x 6 LED's, max. 80 mA	Application design	18 x 16 x 7 mm

Content is subject to change without prior notice.