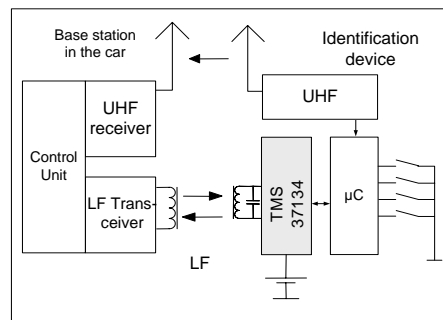


## Entry Transponder IC TMS37134

The Entry Transponder (ET) IC combines the proven TI DST+ transponder with a sophisticated power management; it has an SPI interface to connect it to an external micro-controller, ideally suited for Remote Keyless Entry applications for automotive.

The embedded DST+ transponder offers a high level of security through its encryption, mutual authentication and after-theft diagnosis features; it operates without battery. The power management features battery charge and battery check functions, which can be used for charging of the battery through the transponder LF field.



### Specifications:

Part Number	TMS 37134
Features	Immobilizer plus power management
	Immobilizer compatible to DST+ (E9WK )
	Battery Check / Charge function
Supply Voltage	1.8 ... 3.6 V
Current consumption	100µA (max.) @3V
Transponder	
Transmission Principle	HDX (Half Duplex), FDX ( Full Duplex using amplitude Modulation)
Operating Frequency	134.2 kHz
Modulation Downlink (to the TRP)	100% AM, Bit Coding PWM or PPM
Security	TI Challenge/Response, Mutual Authentication, Secure Issuer Access Mode
Encryption, Mutual Authentication, Issuer Key	Each 40 bit
Encryption response (signature)	24 bit
Modulation Downlink (to the TRP)	100% AM, Bit Coding PWM or PPM
Datarate Downlink	PWM: typ. 1,3kBit / PPM: typ. 2kBit
EEPROM Memory	127Byte (lockable) for User data, 25Byte for Encryption Keys, serial#,
Read Time for an Encryption	< 120 ms
Activation Field Strength	137.5dBµA/m
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +125°C
Package	20 Pin TSSOP PW

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: <http://www.ti-rfid.com>

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