



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Security Transponder, HITAG 2

Features

- Programmable Security Transponder
- 64/32 bit mutual authentication
- 32 bit unique device identification number
- 48 bit Secret Key
- Fast authentication, 39 ms
- 128 bit non-volatile user memory (EEPROM)
- EEPROM access in plain or cipher mode
- EEPROM read/write protection capabilities
- Read Only modes for downward compatibility
- Excellent device sensitivity in read and write mode, 35 μ T
- 20 year EEPROM data retention
- Leadless stick shaped plastic package

General Description

The PCF7936, HITAG 2 is a programmable Security Transponder employing mutual authentication ideally suited for contactless authentication and memory access between a basestation and the transponder.

The transponder meets the security and performance requirements of modern vehicle immobiliser applications. Excellent device sensitivity (large distance) and short authentication time ensure easy application and outstanding system performance.

The transponder provides 256 bit of non-volatile memory (EEPROM) from which 128 bit are reserved for user data storage. User data and configuration data may be exchanged in cipher mode for advanced pre-personalisation techniques. Memory access flags support read and/or write protection of data.

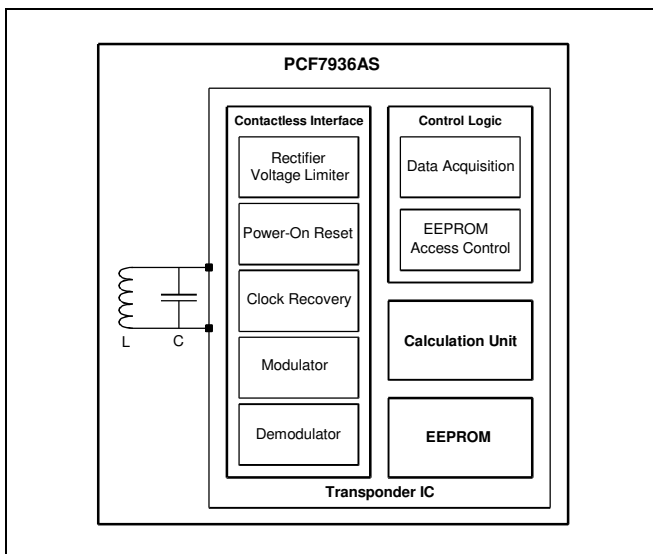
The device performs a fast mutual authentication algorithm, employing a Random Number, Secret Key and Passwords. In addition the HITAG 2 features a factory programmed 32 bit unique identification number to enable unambiguously device identification.

The HITAG 2 features two Read Only modes for downward compatibility with common Read Only systems.

The transponder power supply and system clock is derived from the magnetic component of the RF field generated by the basestation. Due to low power consumption the HITAG 2 provides excellent sensitivity in read and write mode.

The transponder is assembled in a small leadless stick shaped plastic package.

Block Diagram



Stick Package Outline

