

SLE 66R35	4-byte fixed unique number (UID)
SLE 66R35I	4-byte fixed number, non unique (FNUID)
SLE 66R35R	4-byte fixed reused identity number (r-ID)

Short Product Overview

Features

- Intelligent 1 kByte Memory Chip with NRG (ISO/IEC 14443-3 type A with CRYPTO1) compatibility and
 - 4-byte Unique Identification Number
 - 4-byte Fixed Non Unique Identification Number
 - 4-byte Fixed reused Identification Number
- Physical Interface and Anticollision compliant to ISO/IEC14443-2 and -3 Type A
 - Operation frequency 13.56 MHz; data rate 106 kbit/s
 - Contactless transmission of data and supply energy
 - Anticollision logic: several cards may be operated in the field simultaneously
- Read and Write Distance up to 10 cm and more (influenced by external circuitry i.e. reader and inlay design)
- Short transaction times: typical ticketing transaction < 100 ms; transaction possible when card is moving

Applications

- Weekly or seasonal cards for Automatic Fare Collection (AFC)
- Event ticketing
- Access Control
- Micropayment

Description

The SLE 66R35 / SLE 66R35I / SLE 66R35R is designed to operate in a NRG (ISO/IEC 14443-3 type A with CRYPTO1) compatible system. The system consists a smart card and a card reader together with an antenna. The operating distance between card and reader antenna is up to 10 cm and more (influenced by external circuitry i.e. reader-antenna configuration). The card's antenna consists of a simple coil with a few turns embedded in plastic. The RF communication interface transmits at 106 kbit/s resulting in short transaction times, the effect being that a card user can move freely through a reader gate with minimum disruption. A typical ticketing transaction can be handled in less than 100 ms. Robust contactless transmission means that the card with SLE 66R35 / SLE 66R35I / SLE 66R35R may also remain in the wallet of the user even if there are coins in it. An intelligent anticollision function based on the chip single size identifier (uid0 – uid3) enables more than one card in the field to operate simultaneously. The anticollision algorithm selects each card individually and ensures that the execution of a transaction with a selected card is performed correctly without data corruption resulting from other cards in the field.

Product name	SLE 66R35E7
Product description	Intelligent 1 kByte Memory Chip with NRG (ISO/IEC 14443-3 type A with CRYPTO1) compatibility and 7-byte Unique Identification Number
Interfaces	ISO/IEC 14443-3 Type A
Symmetrical cryptography	Mutual three-pass authentication between card and reader for basic security
Ambient temperature	-25 ... +70°C for the chip
System Features	NRG (ISO/IEC 14443-3 type A with CRYPTO1)
Delivery forms	Sawn wafer 120 or 150 µm NiAu bump 20 µm MCC8-2-6 MCC2-2-1
Typical applications	Transport ticketing, Access Control systems, Automatic Fare Collection (AFC) systems and other smart card security applications

For further information on technology, delivery forms and conditions please contact your nearest Infineon Technologies sales representative (www.infineon.com)

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