readID™ MIFARE® & Prox
SE 0994 MNP

USB Reader for MIFARE® CSN/Sector, MIFARE® Ultralight CSN, MIFARE® DESFire® CSN & EM 4102

Functional description

Design for easy registration RFID cards in access control software. The card reader interface connects to a pc via USB (2.0) and the required driver is automatically loaded (Windows, MAC OS & Linux).

When presenting a MIFARE® card or tag to the readID™ MIFARE® card reader the card data is transferred to pc as keyboard data. In addition to MIFARE® transponders EM4102 is also supported.

This allows for integration with existing software where card data usually is being typed into the system.

Product versions:	
SE 0994 MNP	readID™ MIFARE® & Prox

CARD TECHNOLOGY	DATA TYPES	DATA	DATA FORMAT
NXP MIFARE®	Sector data or UID/CSN	32, 56 & 128 Bit	26, 32, 56 Bit Hex/Dec/ASCII/Rev
NXP Ultralight®	UID/CSN	32 & 56 Bit	26, 32, 56 Bit Hex/Dec/Rev
NXP DESFire®	UID/CSN	32 & 56 Bit	26, 32, 56 Bit Hex/Dec/Rev
Legic® Advant (ISO14443)	UID/CSN	32 & 56 Bit	26, 32, 56 Bit Hex/Dec/Rev
EM 4102	UID/CSN	40 Bit	26, 32, 40 Bit Hex/Dec/Rev
TK 4100	UID/CSN	40 Bit	26, 32, 40 Bit Hex/Dec/Rev

The custom format allows for verification of valid data received on bit length and selecting part of the card number by use of offset and data length. Output data can be formatted as decimal or hexadecimal and can be truncated – Please see the user manual for the SBR 0814 / 0904 / 0952 / 0962 / 0993 product family.

Security Engineering ApS
Birkholmsvej 33
DK-2800 Kgs. Lyngby
Tel. +45 87 30 04 45
www.securityengineering.dk

SECURITY ENGINEERING

How to order

When ordering a card reader please specify: product number & configuration in the following manor:

Product	SE 0994 MNP	readID™ MIFARE® & Prox
Configuration	SE 0994 SFN	Format ID: xx, CR = On / Off

Selecting data format

The firmware in the readID™ MIFARE® & Prox card reader allows for multiple output formats in order to match the card data presentation in the receiving system.
The chip serial number of a MIFARE or EM Prox card or tag is stored in binary format but is often displayed in decimal format. To allow easy integration the most commonly used formats have been implemented in the standard firmware.
Each format has 2 selectable options, one for enabling 'Enter/CR' as end of transmission character and one for enabling format specific options like padding (#xxx…xxx#) or 56 Bit support.

On site configuration requires seucu software, which is freely downloadable from *www.securityengineering.dk*
The current format list is available on the website.

Audio & visual indication

The readID™ MIFARE® & Prox card reader is equipped with a buzzer for acoustic indication and a multicolor LED for visual indication.
At connection of the unit to the USB port the LED sequence **red -> yellow -> green** indicates correct initialization.
Transmission of data is indicated with a green flash and activation of the buzzer output.
Errors in the card data is indicated with a double red flash and activation of the buzzer output.

Firmware

The USB reader can be firmware updated in field using the seufu.exe utility, which is freely downloadable from *www.securityengineering.dk*.
Standard firmware supports USB HID - Human Interface Device class with keyboard emulation.
Alternative firmware is available with USB CDC – Communication Device Class for COM-port emulation.

Data

Dimensions	70 x 50 x 20 mm (L x W x H)
Color	Black
Connection	USB A Connector on fixed cable – USB 2.0 interface
Cable	Fixed mount / 1,8 m / Black
Commodity code	8471
Country of Origin	DK
ECCN code (US)	N
Export list number (EU)	N

SECURITY ENGINEERING