

USB Compact MIFARE® DESFire® SBR 1030 MIX

USB Reader for MIFARE® CSN/Sector, MIFARE® Ultralight CSN,
MIFARE® DESFire® CSN



Functional description

Design for easy registration of RFID cards in access control software. The card reader 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 USB Compact MIFARE® DESFire® card reader the card data is transferred to the pc as keyboard data.

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

Product versions

SBR 1030 MIX	USB Compact MIFARE® DESFire®
SBR 1030 TU	USB Compact interface for Wiegand or Clock/Data

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	UID/CSN	32 & 56 Bit	26, 32, 56 Bit Hex/Dec/Rev

The programmable 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.

How to order

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

Product	SBR 1030 MIX	USB Compact MIFARE® DESFire®
Configuration	SBR 1030 SFN	Format ID: xx, CR = On / Off

Selecting data format

The firmware in the USB Compact MIFARE® DESFire® 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® 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 USB Compact MIFARE® DESFire® 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.

Errors in the card data is indicated with a double red flash and activation of the buzzer.

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	90 x 55 x 25 mm (L x W x H)
Color	Black
Connection	USB B Connector on device – USB 2.0 interface
Cable	Detachable USB A to USB B / 1,8 m / Black
Commodity code	8471
Country of Origin	DK
ECCN code (US)	N
Export list number (EU)	N