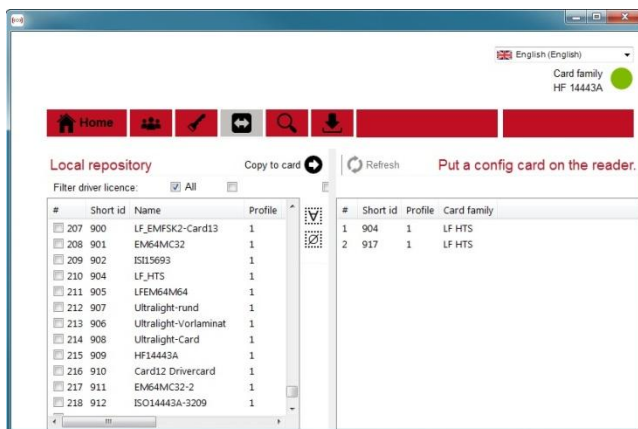


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## AES Multi frequency RFID Reader USB Device SA2-USB-V2

RFID frequency	13.56 MHz	125 kHz
RFID protocol	ISO 14443a	all typical tags (extendable)
	ISO 15693	
Interface	<b>USB HID</b>	
Operating voltage range	5 V	
Max. operating voltage	5.75 V	
Max. power consumption	135 mW	
Temperature range	-30...+70 °C	



The reader supports the two main frequencies for RFID cards. At the low frequency 125 kHz, a wide range of available transponders are read. At the high frequency 13.56 MHz, the standards ISO14443a and ISO15693 are implemented. NFC devices are detected. The readable card range can be extended.

The reader implements the physical interface to the USB HID. Two LED's indicating the existence of a "TeachOn"-card.

The application areas of the rugged industrial reader can be used wherever transponder cards must be identified. Such identification systems can launch vehicles, provide access free or allow other authorization or prohibit. The UID of authorized cards are stored in the reader in the field. The release takes place by means of a command generated by the reader to the device to be controlled. The reader can be trained with the help of a "TeachOn"-card. To store the UID's at the "TeachOn"-card there you can use the MTR-reader with an USB HID connection to the PC. The user programs the UID's on the reader using a convenient PC program. With the PC-program the customer can detect the transponder frequency and protocol. It is possible to save the cards and manage them. The firmware can be convenient updated also via the PC-programm.

The power supply comes from the PC's USB-A connector.

#### FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

RF Exposure: A distance of 15 cm shall be maintained between the antenna and users, and the transmitter may not be co-located with any other transmitter or antenna.