

## **Operational description MiCardV2 HID**

Brief description of the functionality of the MiCardV2 HID

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## **1. Brief operational description of the MiCard HID**

The MiCard HID is used to read the Unique Identification Number (UID) of a 125kHz HID Proximity card and transfer it via its USB interface to a USB Host. The device consists of two main parts.

The first one is the RF Modulator / Demodulator with its coupling device (antenna). This part is used to demodulate the information from the RF Card to get the UID of the card.

The “antenna” of the device is not a real antenna. It is more or less a magnetic coupling device. For such a coupling device it makes no sense to define the antenna gain, because it is much too small to be a real antenna and the loss is too big. So if the antenna gain would have to be defined it would be far in the negative.

The second part of the device is used to convert the synchronous serial information from the RF part into a USB conform signal for the USB host. Additionally, it supplies the power for the other components and signals the status of the reader to the user.

## Appendix A                    Block diagram

