RFID-reader housing (indication)

The smart **StandAlone RFID-reader** (**SARFID**)

Robust RFID-reader for animal and person identification

The SARFID-reader, to be used for animal and person identification, is able to read tags which are compliant with the ISO 11784/5 standards. The SARFID-reader will be wireless connected via BlueTooth® to your smartphone, tablet or PDA, so no display is needed on the SARFID-reader itself. The robust SARFID-reader is poured-in, which makes the reader itself almost insensible to its environment. The SARFID-reader can be integrated into a glove (to be able to work hands-free), but can also be connected to the hardcover of your smartphone.

Introduction

The SARFID-reader, a battery powered Embedded device, is completely developed by GHiTECH, and is in fact the successor of the CT-RFID-134 RFID reader module.

The SARFID-reader, which includes a rechargeable battery, has a working time of up to 16 hours (by 3600 identification scans per hour)

Modular design

SARFID-reader consists of:
1. Transponder (HDX, FDX-B and H4002 compatible)
2. LEDs (status, tag presence, external stick antenna indication)
3. Micro-USB (for loading the battery)
4. IP64 housing

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Hands-free glove SARFID-reader

The picture below depicts the SARFID reader combined with a glove, to able to work hands-free. The SARFID is suitable for identifying low-frequency tags (134.2 KHz).

SARFID-reader package

A complete SARFID package contains:

- The SARFID reader itself
- A battery in white package
- An USB cable (micro to normal USB)

SARFID for Smartphone Hardcover

Herewith the Hardcover version of the SARFID:

Specifications (technical)

General

Ambient Temperature (°C)	-40 .. 85 °C (T3)
Degree of protection	IP64
Dimensions LxWxH (mm)	65 x 55 x 21
Weight (gram)	110
Component choice (all components)	Rail, Automotive and Industry qualified
Input voltage	5 V_{DC}

Microprocessor & Interfaces

Family (BlueTooth module)	F2M03GLA

Interfaces

SARFID provides the following interfaces:

Interfaces

RFID	LF (134,2 kHz)
RFID standards	HDX, FDX-B
BlueTooth®	V2.0 + EDR (Class 1,2 and 3)
BlueTooth data rate	3 Mbps

Indicator LEDs

Led-1 (yellow)	Tag presence
Led-2 (green)	BlueTooth connected
Led-3 (red)	Low battery
Led-4 (green)	Charging

Connectors (Type)

Voltage	Micro-USB connector

Standards

SARFID-reader complies with the following standards:

- ISO 11784/5 – HDX compatible
- ISO 11784/5 – FDX-B compatible
- ISO 14223 – Advanced Transponders

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