

onufree

RFID MIFARE reader/writer

Overview

onufree

RFID reader/writer is multipurpose device for contactless communication with ISO/IEC 14443A/B smart cards at 13,56 MHz. It is designed to be reliable and user friendly for time critical applications, but very cost effective.

onufree has different modifications for USB or serial communication interface for customer PC software.



Features

- Fully tested and compliant with major contactless smart cards that conform to ISO14443 A/B in the market
- Read and write functionality
- Full MIFARE data encryption supported
- Built-in antenna
- High-speed transactions
- USB or serial RS232 (also available in RS485 on request) communication interface
- Flexible connectivity interface for data collection
- Unique serial number which enables that **onufree** can be plugged into any USB slot on a PC without having to re-install the driver.
- Digital general purpose I/Os – software configurable
- Operation LEDs – software configurable
- Buzzer – software configurable
- Low power consumption
- Compact size: 98 x 60 x 25 mm
- RoHS Compliant

Supported Card Types

onufree MIFARE reader/writer supports variety of 13,56 MHz contactless smart cards including:

- MIFARE cards /Classic, DESFire, Lite/
- All ISO 14443 type A cards
- All ISO 14443 type B cards

Typical Applications

- Public transportation terminals
- Automatic fare collection
- Vending machines
- Physical access control
- Time attendance
- Contactless public phones
- Metering
- Logon verification

Technical Specification

- Operating Frequency
 - Operating frequency: 13,56 MHz
- Contactless Smart Card Interface
 - Standard: ISO 14443 A/B
 - Protocol: MIFARE Classic protocol, MIFARE Dual Interface Card ICs
 - Smart card read/write speed up to: 424 kbaud
- Antenna
 - Integrated antenna
 - Operating distance: up to 70 mm (depends on tag and environment)
- Universal Serial Bus Interface
 - Power source: from USB
 - Speed: USB 2.0 compatible
 - Supply voltage: regulated 5V DC
 - Supply current: typical 60mA
- Serial Interface
 - Type: RS232 or RS485 – 4 wires
 - Operation Baud Rate: 9600 – 115200 bps /115200 by default/
 - Power source: external
 - Supply voltage: 6 ÷ 12 V DC
 - Supply current: typical 60mA
- Cable connector
 - USB-B
 - DB9 female RS232 / RS485
- Case
 - Dimensions: 98 x 60 x 25 mm
 - Weight: 60 g
 - Material: ABS, light grey
- Operating Conditions
 - Temperature: -20° ÷ 60° C, Humidity: 10% ÷ 95%, non-condensing
- Drivers
 - MS Windows XP, Vista
 - Linux
- OEM
 - OEM logo, customer-specific colors, customer specific connector, OEM modules, other communication interfaces on request