Desktop Read/Write Reader for NXP MIFARE® Classic Contactless Smart Cards

Overview

The WAVE ID® Writer 13.56 MHz product line meets a variety of needs in a multitude of applications. These contactless smart card readers leverage current credential investments and existing control systems while expanding technologies and applications with a single credential solution.

The WAVE ID Writer easily plugs into a computer to write to contactless smart cards via the included Card Manager software or through the optional Software Developer's Kit (SDK). The Writer can write to any application area on MIFARE cards and allows users to set their own keys.

When used with contactless smart cards, it offers various security features such as RF data encryptions and mutual authentication using user-defined unique keys.

Easy Interface and Protocol

Readers connect directly to a USB port and can be configured to send non-keystroking data.

Simple MIFARE Product Integration

The SDK kit includes several high-level commands, which allows third-party developers to set up MIFARE products quickly. Commands include the following:

- Connect (automatically find/connect to the USB WAVE ID Writers)

- Find free page/sector

- Fill page (with data)

- Erase page (making it free for other applications)

- Read from card or write data to card (specific block)

- Load key(s) in reader

- Write key to card

Industry Standard Compliant

Uses advanced semiconductor technology based on 13.56 MHz frequency to comply with numerous ISO standards. Readers can read data from cards compliant with the ISO 14443 & ISO 15693 standards, as well as read/write MIFARE Classic cards.

Security

Contactless smart cards offer unique features, such as cryptographic data storage, mutual authentication, secure reading/writing of data, and user-defined access keys.

Time and Cost Savings

Allows users to leverage existing access control systems, while upgrading to new applications and technologies. Eliminates the need for training, printing, and card costs by using just one card.

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Trust begins here.™

Common Applications

Credential-based reader solutions help streamline workflow and avoid identification errors by eliminating the need to manually enter usernames and passwords. Here are some of the most common applications in key industries.

	HEALTHCARE	GOVERNMENT	MANUFACTURING	ENTERPRISE
Single Sign-On	+	+	+	+
Time & Attendance	+	+	+	+
Training Compliance	+	+	+	+
Point-of-Sale	+	+	+	+
Secure Print Management	+	+	+	+

STANDARD FEATURES

Model Series	RDR-7580AKU
Operating Frequency	13.56 MHz
Interface	USB
SDK available for writing apps to the reader	Yes

PHYSICAL CHARACTERISTICS

Dimensions	3.4" x 2.0" x 0.6"
Weight	4.0oz (113.39g)
Housing Color	Black
Cable Length	6' standard; 6" and 16" lengths available
Indicators	LED indicator (green, amber, red); Adjustable beeper volume (off, low, medium, high)
Form Factors	Desktop
Power Supply	Nominal input: 5 Vdc; USB Model: via USB cable

ENVIRONMENTAL

Operating Temperature Range	–31° to 150°F (–35° to 65°C)
Operating Humidity Range	5% to 95% relative humidity, noncondensing
Storage Temperature Range	–40° to 185°F (–40° to 85°C)

OTHER

Certifications *(Please contact rf IDEAS for information about other global certifications)*	FCC, United States; CE Mark, Europe; C-TICK, RoHS
Compatible Operating Systems	Windows XP®, 7®, 8®, 10® and Linux (Ubuntu, Red Hat), macOS and Android
Card Types	Supports nearly all card types worldwide. Visit rfIDEAS.com for full list of supported card types.

4020 Winnetka Avenue, Rolling Meadows, IL 60008   //   Toll Free: (866) 439-4884 //
Voice: (847) 870-1723   //   Fax: (847) 483-1129   //   Email: sales@rfIDEAS.com   //   rfIDEAS.com

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