

Readers for Identification and Enrollment of Proximity or Contactless Smart Cards



Overview

WAVE ID® Solo credential readers are designed for organizations seeking to implement new ways to improve efficiency and leverage their existing card system for applications beyond physical security. Engineered to work with virtually any proximity and contactless smart card technologies, the 13.56 MHz contactless model is compatible with nearly all 13.56 MHz cards. The 125 kHz proximity model provides error-free identification for over 300 million physical access cards worldwide. The WAVE ID Solo readers are available in keystroke and non-keystroke versions and can be configured to read up to four card types.

Developed to Meet and Exceed Stringent Secure Authentication Needs

The WAVE ID Solo reader is used for identification, authentication, and access control applications. rf IDEAS is the preferred partner for solutions that combine readers, credential technology and application software to eliminate manual entry of usernames and passwords, streamline workflow, and eliminate errors for identification.

Plug-and-Play Functionality and Seamless Integration

Connecting directly into a USB port, the WAVE ID Solo keystroke reader emulates a keyboard and outputs the card data to the cursor's location on the screen. The WAVE ID Solo reader is easily configured to increase security and control access. Through the configuration process, desired credential data output and access privileges for cardholders can be established. With our extended features, users benefit from additional flexibility to manipulate card data and further increase security with encryption. As a card enrollment or credential reader/tester, the USB model emulates a keyboard and keystrokes the card's ID and/or facility code to the cursor's location on the screen. The reader can be configured to add keystrokes before and after the card's data.

The WAVE ID Solo reader easily integrates into existing credential systems. It eliminates the need to add another credential or additional readers when increasing the number of applications that use credential systems for employee identification. The WAVE ID Solo reader supports standards ISO 14443 and ISO 15693 for access control, secure printing, time and attendance, and cashless payment. This reader is also available with serial or USB virtual COM interface and delivers the credential's data in ASCII.

Developer-friendly SDK

Integrate the reader with your software or hardware product through the use of the rf IDEAS Universal Software Developer's Kit (SDK). In contrast to the keystroke readers, the SDK or non-keystroking reader passes the raw card data offering nearly unlimited possibilities for user identification and authentication.

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 Printing	+	+	+	+

STANDARD FEATURES	Proximity Readers	Contactless Readers
Model Series	RDR-6x81AKU Keystroke RDR-6x82AKU SDK Note: x = Card Type	RDR-7081AKU Keystroke RDR-7082AKU SDK RDR-7581AKU Keystroke RDR-7582AKU SDK
Operating Frequency	125/132 kHz	13.56 MHz
Interface	USB, Ethernet, RS-232 or other	
WAVE ID Plus SDK available for writing apps to the reader	Yes	
PHYSICAL CHARACTERISTICS		
Dimensions	Height 0.6" (1.52cm) x Width 2.0" (5.08cm) x Length 3 3/8" (8.57cm)	
Weight	4.0 ounces (113.39g)	
Housing Color	Black	
Cable Length	6' standard; 6" and 16" lengths available	
Indicators	LED indicator; Adjustable beeper volume (off, low, medium, high)	
Form Factors	Desktop, surface mount, non-housed	
Minimum Voltage	5V	
Power Supply	USB powered; some RS-232 models require external power source	
Power Consumption	70 mA typical, 100 mA maximum	60 mA typical, 150 mA maximum
ENVIRONMENTAL		
Operating Temperature Range	-22° to 150°F (-30° 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 <i>(Please contact rf IDEAS for information about other global certifications)</i>	FCC-United States; CE Mark-Europe; RCM-Australia; IC-Industry Canada. Environmental: RoHS, REACH	
Compatible Operating Systems	Windows XP®/7®/8.1®, 10® and Linux Ubuntu	
Configuration Utility	rf IDEAS Configuration Utility available on rf IDEAS support page.	
Card Types	For a complete list, visit https://www.rfideas.com/support/tools/supported-card-types	

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