

Dual-Frequency Proximity and Contactless Readers for Identification and Enrollment



Overview

WAVE ID® Solo Surface Mount readers are designed for organizations seeking to leverage their existing card system for applications beyond physical security. The readers are engineered to work with nearly all proximity and contactless smart card technologies. The 13.56 MHz contactless model is compatible with nearly all 13.56 MHz cards and the 125 kHz proximity model provides error-free identification for over 300 million physical access cards worldwide.

Application Flexibility

The readers are specifically designed for applications such as kiosks, time & attendance, point of sale, hoteling, meeting attendance, as well as others which require special mounting versatility. These readers mount easily with two screws and fit in a single-gang electrical box. They incorporate all the functionality of the standard desktop readers and are ideal for specialized card and badge reading locations.

No Required Software

Featuring plug-and-play functionality, no required software, and embedded configurable flash memory, the WAVE ID Solo Surface Mount reader is ready to integrate with nearly all operating systems, applications, and embedded controllers. The reader can be configured to add keystrokes before and after the card's data. The USB model emulates a keyboard and keystrokes the card's ID and/or site code to the cursor's location in the application. The serial version, available in RS232, Ethernet, or USB Virtual COM, delivers the card's data in ASCII.

Variety of Formats

In addition to the Surface Mount housing (shown), readers are available in a standard desktop format, USB Dongle, PCMCIA, Express Card, embedded keyboard, and OEM form factors. Using the optional rf IDEAS Software Developer's Kit (SDK), the WAVE ID 125 kHz and 13.56 MHz families can be easily integrated with most applications.

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-60W1AKU RDR-60W2AKU RDR-60W1AK0 RDR-75W1AKU RDR-75W2AKU
Mounting Options	The WAVE ID Solo Surface Mount (shown on front) can be easily mounted on kiosks, walls and other indoor surfaces.
Operating Frequency	125 kHz or 13.56 MHz
Interface	USB, Serial RS-232
SDK available for writing apps to the reader	Yes

PHYSICAL CHARACTERISTICS

Dimensions	4.3" x 2.5" x 0.35" (10.9cm x 6.35cm x 0.89cm)
Weight	2.6 oz. (73.70g)
Housing Color	Black or White
Cable Length	13 inches (Custom Lengths Available)
Indicators	Tri-state LED, beeper
Power Supply	USB Self-powered; PoE; Serial RS-232: several power options exist
Power Consumption	70 mA typical, 150 mA maximum
Mounting Parts	The Surface Mount is designed for mounting with 1" #8 screws only (not included), at a max force of 6.25 in/lbs

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; C-TICK, RoHS, IC-Industry Canada, UL
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/cardcompatibility for a full list of supported card types.