Single- or Dual-Frequency Card Readers Designed to Improve Security and Efficiency Beyond Door Access



Overview

WAVE ID® Solo and WAVE ID® SP Plus readers for LEGIC work with the LEGIC proprietary algorithm for data authentication and support both LEGIC advant and LEGIC prime card technologies. They are designed to deliver true contactless smart card security; high flexibility to manage, merge and migrate mixed card populations; and improved workflow for applications requiring card access.

Meet and Exceed Stringent Secure Authentication Needs

As part of a complete security solution, WAVE ID Solo and WAVE ID SP Plus for LEGIC smart cards are used for identification, authentication, and access control applications. IT organizations select LEGIC card technology for its enhanced level of security, flexibility, unique ID (UID) and additional protection of identity.

Connecting directly into a USB port, WAVE ID Solo and WAVE ID SP Plus readers emulate a keyboard and output the card data to the cursor's location on the screen. The readers are easily configured to increase security and control access. Through the configuration process, desired credential data output and access privileges for cardholders can be established.

Powerful Authentication That's Easy to Integrate

The WAVE ID Solo is a single-frequency reader in desktop, surface mount or non-housed form factors. The WAVE ID SP Plus features an ultra-slim form factor is designed to fit into recessed pockets on printers or mounted externally.

These LEGIC card readers provide the assurance of highly reliable access to all printers. Operating at the 13.56 MHz standard, LEGIC technology is used in contactless smart cards worldwide to deliver tamper-proof data transmission, faster card reading, and hardened copy protection.

WAVE ID Solo and WAVE ID SP Plus for LEGIC Smart Cards support:

- Advant and prime UID
- Advant and prime secure memory
- Standards ISO 14443 and ISO 15693
- Data from secure segments
- Configurable secure segment settings to meet customer data security requirements
- Secure data exchange for each segment
- Secure launch with a LEGIC SAM63 card
- User-defined encryption keys

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-7L81AKU (keystroke; UID) RDR-7L82AKU (SDK; UID) RDR-7L81BKU (keystroke; secure segment) RDR-7L82BKU (SDK; secure segment)	RDR-80LH1BKU (keystroke; secure segment) RDR-80LH2BKU (SDK; secure segment)
Operating Frequency	13.56 MHz	125/132 kHz and 13.56 MHz
Interface	USB	
PHYSICAL CHARACTERISTICS		
Dimensions	3.4" x 2" x 0.6 (8.63 cm x 5.1 cm x 1.52 cm)	3.4" x 2" x 0.6 (8.63 cm x 5.1 cm x 1.52 cm)
Weight	4.0 oz (113.39g)	2.7 oz (76.6gm)
Indicators	LED indicator (green, amber, red); Adjustable beeper volume (off, low, medium, high)	
Power Supply	USB self-powered, 5VDC	
Power Consumption	70 mA Typical, 100 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 *(Please contact rf IDEAS for information about other global certifications)*	FCC-United States; CE Mark-Europe; RCM-Australia; IC-Industry Canada	
Operating Systems	Windows XP®, 7®, 8®, 10® and Linux (Ubuntu, Red Hat), macOS and Android	
Supported Card Types	Visit https://www.rfideas.com/cardcompatibility for full list of supported card types. Contact rf IDEAS for specific card type questions.	

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