

Our Most Advanced and Versatile Ultra-Slim, Multi-Purpose Credential Reader Featuring HID Mobile Authentication

The WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader is an ultra-slim, multi-purpose credential reader for identification, authentication, and logical access. Its small, thin form factor enables various integrated or OEM installations in recessed compartments, as well as external mounting configurations. Additionally, the reader can be integrated into a variety of purpose-built devices such as time clocks, kiosks, or protective enclosures.



Designed for Flexibility and Adaptability

Versatile and scalable, the WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader combines physical proximity smart card and contactless technologies along with **Bluetooth®** Low Energy (BLE) support for HID Mobile Access credentials onto one platform. This reader is a future-proof investment with its SIM card slot for expansion with additional secure card types. Support for HID Mobile Access enables end users to leverage their existing credential system for applications beyond building access. This reader offers additional convenience for users to program their own HID ELITE CUSTOM keys and HID MOB keys. The WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader is a popular addition to the rf IDEAS portfolio of card readers known for quality and versatility.

Key features include:

- Four ID card configurations to accommodate multi-card systems
- Auto-tuning 13.56MHz antenna to optimize performance in various environments
- User-selectable volume control including a beeper-off setting for high noise or quiet zones
- Slot for SE4831 SIM (enables HID iCLASS SE®, HID iCLASS® SEOS®, and HID Mobile Access)
- Support for the MIFARE family of secure memory cards
- BLE support for HID Mobile Access credentials

Keyboard Emulation

Connecting directly into a USB port, the WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader emulates a keyboard for output of the credential data. When an employee credential is presented to the reader, it will pass instantly to an organization's back-end network for authentication and access validation, application, or active directory. The reader is highly configurable using the rf IDEAS Configuration Utility and the Smartcard Manager tool.

rf IDEAS Configuration Utility and WAVE ID Smartcard Manager

The rf IDEAS Configuration Utility and the Smartcard Manager allow users to configure the reader to read both encrypted and unencrypted data on any of the four configuration settings. It also allows users to select the desired MIFARE card technologies such as DESFire®. Users can manage deployment of encrypted MIFARE Secure Keys to the reader maintaining the secure chain of custody for these encryption keys.

Trust begins here.™

Security

The WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader supports both the MIFARE and the HID SE/SEOS secure credential technologies.

MIFARE

For MIFARE, the reader supports the full family of MIFARE secure credential technologies, including DESFire EV1/EV2, Classic, Plus and Ultralight. The reader uses the NXP AV2 Secure Application Module (SAM). The AV2 SAM enables the cryptographic keys can be stored and used securely. It also provides secure communication in a variety of infrastructures. The connection between the SAM and the reader is performed using security protocols based on symmetric cryptography (TDEA and AES). The protocols comply with the state-of-art standards and thereby ensure data confidentiality and integrity.

HID

For the HID secure technology, the reader uses a SIM built on HID SE processor. The iCLASS SE Processor is part of HID Global's open iCLASS SE platform that enables customers to future-proof their Secure identity infrastructures. The iCLASS SE Processor supports new SIO (Secure Identity Object™)-enabled credentials based on a variety of technologies, such as iCLASS® SE™, iCLASS Elite®, iCLASS SEOS.

Finally, the WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader supports optional encryption of the card data before it is sent to the HOST system.



Mobile Credentials

With advancements in mobile credentials, the WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader is an ideal investment to enable mobility for greater business performance while supporting existing infrastructures. The reader is compatible with the industry-leading HID Mobile Access credential, available from HID Global through rf IDEAS.

HID Mobile Access incorporates this highly secure platform as its underlying technology, delivered through a reliable, easy-to-use and secure online management portal as an annual subscription service. Together with the WAVE ID SP Plus HID Mobile Access and MIFARE Secure reader, the credential provides a complete logical access solution for today's mobile-dominated business environment.

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

Model Series	RDR-30MH1CKU-MXS-HP, WAVE ID SP Keystroke HID Mobile Access & MIFARE Secure USB reader Credentials: MID-SUB-T100: HID Mobile Access Annual Subscription MID-SUB-T100-ADD: HID Mobile Access Add-On Subscription
Operating Frequency	RFID: 125/132 kHz and 13.56 MHz and 2402 – BLE (Bluetooth Low Energy): 2480MHz
Interface	USB Keyboard Emulation

PHYSICAL CHARACTERISTICS

Dimensions	Height 0.6" (1.52cm) x Width 2.0" (5.08cm) x Length 3.0" (7.62cm)
Weight	2.7 oz (76.6gm)
Housing Color	Black (gray inlay)
Cables	6FT USB-A and 2.5in right-angle MINI USB included (other cable kits available)
Indicators	LED indicator (green, amber, red) Adjustable beeper volume (off, low, medium, high)
Form Factors	Desktop; flush mount
Minimum Voltage	5V
Power Supply	USB powered
Power Consumption	Reader only: 70 mA typical, 100 mA maximum Reader and Bluetooth on: 85mA typical, 120 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)

SECURITY

Cryptographic Module	HID SE PROCESSOR MIFARE AV2 SAM
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OTHER

Certifications (Please contact rf IDEAS for information about other global certifications)	FCC; Industry Canada; CE Mark; RCM; Japan. Environmental: RoHS, REACH.
Compatible Operating Systems	Windows XP®/7®/8.1®, 10®, Linux, HP OXP
Supported Card Types	All proximity and contactless cards supported by the WAVE ID® Plus platform (see https://www.rfideas.com/support/tools/supported-card-types), with the addition of MIFARE DESFire EV1/EV2, Classic, Plus and Ultralight/Ultralight-C secure memory; HID Mobile Access mobile credentials

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