

## Dual-frequency proximity, contactless and HID Mobile Access credential reader with **Bluetooth®** Low Energy Technology

In addition to reading both proximity cards (125 kHz) and contactless smart cards (13.56 MHz), this reader also interacts with Bluetooth Low Energy enabled mobile devices. These devices can carry secure authentication and identification credentials, providing a convenient identity access solution for a variety of applications in every industry.

### Mobile Credentials

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

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



### Simple Authentication

rf IDEAS programmable card readers enable customers to extend their existing card system or mobile credential beyond basic building access to secure applications throughout the enterprise. These solutions eliminate the need to manually enter usernames and passwords, streamlining workflows and eliminating identification errors. Features of the WAVE ID Mobile reader include:

- A dual card reader and Bluetooth Low Energy module in one device, saving a USB port for other peripherals
- Instant identification and authentication with mobile smart devices and employee ID cards
- Four ID credential configurations to accommodate multi-card systems
- User-selectable volume control including a beeper on/off setting

### Seamless Integration

The WAVE ID Mobile reader easily integrates into existing credential systems, eliminating the need for additional credentials or readers while increasing the number of applications that can support contactless employee authentication and identification. The reader emulates a keyboard by keystroking credential information into a text field of an application such as Microsoft® Notepad. Its plug-and-play functionality requires no additional software, providing seamless integration with most common operating systems and applications compatible with USB keyboard input.

The rf IDEAS Universal Software Development Kit (SDK) enables developers to easily integrate the WAVE ID Mobile Bluetooth Low Energy reader into their application software programs. Software developers can quickly create solutions that use employee physical or mobile credential data to bring added benefits to their applications, such as single sign-on, compliance reporting, cashless cafeteria, industrial vending or time and attendance.

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## Common Applications

The introduction of a credential reader with Bluetooth Low Energy technology unlocks an unlimited number of applications. Here are just a few of the most common applications and key industries that can benefit from rf IDEAS dual-band credential readers with Bluetooth Low Energy technology.

	HEALTHCARE	GOVERNMENT	MANUFACTURING	ENTERPRISE
Single Sign-on	+	+	+	+
Time & Attendance	+	+	+	+
Training Compliance	+	+	+	+
Point-of-Sale	+	+	+	+
Secure Printing	+	+	+	+

### STANDARD FEATURES

Model Series	<b>Readers:</b> RDR-30081CKU-MXS Desktop Keystroking Reader RDR-30082CKU-MXS Desktop SDK Non-Keystroking Reader  <b>Credentials:</b> MID-SUB-T100: HID Mobile Access Annual Subscription MID-SUB-T100-ADD: HID Mobile Access Add-On Subscription
Operating Frequency	125/132 kHz or 13.56 MHz
Interface	USB
SDK Available for Writing Apps to the Reader	Yes
WAVE ID Plus SDK	DK-PCPRX-DOWNLOAD
Credential Configurations	Up to 4, user-definable

### PHYSICAL CHARACTERISTICS

Dimensions (inches)	Height 0.6" (1.52cm) x Width 2" (5.08cm) x Length 3 3/8" (8.57cm)
Weight	4.0 ounces (113.39g)
Housing Color	Desktop, black
Cable Length	6' standard; 6" and 16" lengths available
Indicators	Beeper, LED indicator (green, amber, red)
Volume Control	User-selectable beeper volume (low, medium, high) plus beeper on/off setting
Power Supply	USB powered
Power Consumption	<b>Reader only:</b> 70 mA typical, 100 mA maximum <b>Reader and Bluetooth on:</b> 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, non-condensing
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; UL Environmental: RoHS, REACH
Compatible Operating Systems	Windows XP®, 7®, 8.1®, 10® and Linux®
Card Types	HID Mobile Access Credentials All 125kHz and 13.56MHz card types supported by the WAVE ID® Plus Platform

## Dual-Frequency Proximity, Contactless and mobile Credential Reader with **Bluetooth®** Low Energy Technology

The WAVE ID Mobile combines a dual frequency programmable card reader with integrated **Bluetooth®** low energy technology. In addition to reading both proximity (125 kHz) and contactless (13.56 MHz) smart cards, the reader also interacts with Bluetooth low energy enabled mobile devices. Depending on the end user's application software, the WAVE ID Mobile can utilize Bluetooth low energy beaconing to serve use cases, such as in-building location and secure authentication. Bluetooth low energy enabled mobile devices can carry secure authentication and identification credentials, making it ideal for a variety of applications in every industry.

### Mobile Credentials

Advancements with mobile credentials makes the WAVE ID Mobile the ideal investment to support existing infrastructures without sacrificing performance. The WAVE ID Mobile Credential Reader is compatible with the industry-leading Pack ID mobile credential solution from Orange Business Services through rf IDEAS®. Also available for iOS and Android, the WAVE ID Mobile Demo credential app provides an example for customers who want to develop their own applications for authentication from a mobile smart device. Users can build and develop applications for the WAVE ID Mobile and even combine traditional card technology to control and monitor access to secure devices, utilize beaconing for asset tracking location, enhance Single Sign On, Time and Attendance and more.



Business  
Services



### Simplify Authentication

rf IDEAS programmable card readers enable customers seeking to leverage their existing card system or mobile device for applications beyond building access. Badge-based reader solutions eliminate the need to manually enter user names and passwords, streamlining workflow and eliminating errors for identification. Other features include:

- Dual card reader and Bluetooth low energy module in one device, saving a USB port for other peripherals
- Instant identification and authentication with your mobile smart device or employee ID badge
- Four ID badge (card) configurations to accommodate multi-card systems
- User-selectable volume control including a beeper on/off setting selection

### Seamless Integration

The WAVE ID Mobile reader easily integrates into existing badge systems, eliminating the need for additional badges or readers while increasing the number of applications that require employee authentication and identification. The reader emulates a keyboard by keystroking badge information into a text editor screen such as Microsoft® Notepad. Its plug-and-play functionality requires no additional software for seamless integration with most common operating systems and applications compatible with USB keyboard inputs. The rf IDEAS Universal Software Developers Kit (SDK) enables developers to easily integrate the WAVE ID Plus Bluetooth low energy readers into their application software programs. Software developers can easily create solutions that leverage the use of employee physical or mobile credential data, resulting in added benefits to their applications such as single sign-on, compliance reporting, cashless cafeteria, industrial vending or time and attendance.

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## Common Applications

The introduction of the badge reader with Bluetooth low energy technology paves the way to an unlimited number of applications. Below are just a few of the most common applications, by key industry that can utilize rf IDEAS dual band badge readers with **Bluetooth** low energy technology.

	HEALTHCARE	GOVERNMENT	MANUFACTURING	ENTERPRISE
Single Sign-on	+	+	+	+
Time & Attendance	+	+	+	+
Training Compliance	+	+	+	+
Secure Printing	+	+	+	+
Location Tracking	+	+	+	+

### STANDARD FEATURES

Model Series	<b>Readers:</b> RDR-30581BKU Desktop Keystroking Reader RDR-30582BKU Desktop SDK Non-Keystroking Reader RDR-30081BKU Desktop Keystroking Reader w/iCLASS™ ID & Seos® RDR-30082BKU Desktop SDK Non-Keystroking Reader w/iCLASS ID & Seos  <b>Credentials:</b> MOB-PACKID
Operating Frequency	125 kHz or 13.56 MHz
Interface	USB
WAVE ID Plus SDK	DK-PCPRX-DOWNLOAD
Badge Configurations	Up to 4, user-definable

### PHYSICAL CHARACTERISTICS

Dimensions (inches)	Height 0.6" (1.52cm) x Width 2" (5.08cm) x Length 3 3/8" (8.57cm)
Weight	4.0 ounces (113.39g)
Form Factors	Desktop, Black
Cable Length	6' standard; 6" and 16" lengths available
Indicators	LED indicator (green, amber, red)
Volume Control	User-selectable beeper volume (low, medium, high) plus beeper on/off setting
Power Supply	USB powered
Power Consumption	Reader only: 70 mA typical, 100 mA maximum Reader and Bluetooth on: 85mA typical, 120 mA maximum

### ENVIRONMENT

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Operating Humidity Range	5% to 95% relative humidity, non-condensing
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; UL Environmental: RoHS, REACH
Compatible Operating Systems	Windows XP®, 7®, 8.1®, 10® and Linux®
Card Types	Supports nearly all physical card types worldwide; contact rf IDEAS for specific card type questions.

### BLUETOOTH MODULE FEATURES

Integrated Bluetooth Smart Stack	GAP, GATT, L2CAP and SMP; Bluetooth Smart profiles
Radio Performance	TX power: up to +3dBm; Receiver sensitivity: -92 dBm
BLE Beacons	Configurable for Eddystone, Alt Beacon and iBeacon
Supported Protocols	Bluetooth
Internet Security Support	General Purpose CRC, Random Number Generator, Hardware Cryptographic Acceleration for AED 128/256, SHA-1, SHA-2 (SHA-224 and SHA-256) and ECC

The WAVE ID Mobile combines a dual frequency programmable credential reader with integrated **Bluetooth®** low energy technology.



In addition to reading both proximity (125 kHz) and contactless (13.56 MHz) smart cards, the reader also interacts with **Bluetooth** low energy enabled mobile devices. Such mobile devices can carry secure authentication and identification credentials, making it ideal for a variety of applications in every industry.

### Mobile Credential

The WAVE ID Mobile reader has been specifically designed for use with industry-leading mobile credential solutions by Safetrust (safetrust.com). The reader contains built-in support for the Safetrust Wallet application for iOS and Android™ which enables mobile credential authentication for secure print, single sign-on (SSO), point-of-sale (POS) transactions and other activities.

The Safetrust Wallet receives Virtual Credentials from the Safetrust Credential Manager and sends these credentials to the WAVE ID Mobile reader, to enable access. Safetrust Wallet can support multiple organizations to store and manage a range of credentials types for different buildings and applications in real time. The integration enables users to leverage their mobile device or their traditional employee ID badge for flexible authentication, allowing organizations to migrate to mobile network credentials at their own pace.

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- Dual card reader and Bluetooth low energy module in one device, saving a USB port for other peripherals
- Instant identification and authentication with your mobile smart device or employee ID badge
- Four badge (credential) configurations to accommodate multi-card systems and mobile credentials
- User-selectable volume control including a beeper on/off setting selection

### Seamless Integration

The reader's plug-and-play functionality requires no additional software for seamless integration with most common operating systems and applications compatible with USB keyboard inputs. The rf IDEAS Universal Software Developers Kit (SDK) easily enables developers to integrate the WAVE ID Mobile readers into their application software programs. Solutions that leverage the employee ID badge data are easily created resulting in added benefits to their application such as single sign-on, cashless cafeteria, industrial vending or time and attendance.



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Operating Frequency	125/132 kHz and 13.56 MHz
Interface	USB
WAVE ID Plus SDK	DK-PCPRX-DOWNLOAD
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