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 (125/132 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. Combined with third party wayfinding software and beacons, the WAVE ID Mobile helps personnel find the nearest secure device such as a printer, terminal or dispenser.

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.

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.

Trust begins here.™

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	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
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	
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 *(Please contact rf IDEAS for information about other global certifications)*	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 Beaconing	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

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