

### HF | LF - Stationary Reader rf IDEAS - WAVE ID® Plus Mini

- Dual-Frequency RFID: 125 / 132 kHz + 13.56 MHz (ISO 14443)
- MIFARE DESFire EV1/EV2/EV3, Classic, Plus, Ultralight
- USB & RS232 versions available
- Adjustable LED & beeper
- Windows, macOS, Linux & Android compatible



### HF | LF - Stationary Reader Universal Dual-Frequency RFID Reader

Universal Wallet readers from rf IDEAS provide credential authentication that is compatible with Apple Wallet/ECP 2.0, Google Wallet/MIFARE 2GO, and Allegion HCE. Designed for enterprise, education, healthcare, and government sectors, this wallet-agnostic solution simplifies deployments, accelerates onboarding, and enhances security with support for multifactor authentication. Universal Wallet readers are suitable for both upgrading existing systems and implementing new installations.

Developed to read virtually any proximity or contactless card type in the world, the WAVE ID Plus Mini is the most powerful, robust reader on the market for identification, authentication, and access applications. Credential-based reader solutions eliminate the need to manually enter usernames and passwords, streamlining workflow and eliminating errors for identification.


The WAVE ID Plus Mini reader allows companies to leverage the same cards they use to get into the building for countless applications involving logical access to network, software applications, and equipment. Connecting directly into the USB port, the reader emulates keystrokes of the USB model card data on the login screen. The serial models can connect to a RS232 port\*. Its user-friendly functionality requires no software for seamless integration with common operating systems and applications. The reader integrates into your software or hardware product through the use of the rf IDEAS Software Developer's Kit (SDK). The reader is also available in a CCID version, allowing plug-and-play operation with standard PC/SC drivers for Windows and other OS and including support for FIDO2 NFC authenticators.

### Common Applications

- Secure Login & Single Sign-On
- Secure Print Management
- Access Control
- Healthcare Authentication
- Government ID Systems
- Events & Hospitality



## TECHNICAL SPECIFICATIONS

Reader Models	RDR-80531BKU, RDR-80531BKU-C06, RDR-80531BKU-C16	RDR-80031BKU-V2, RDR-80032BKU-V2, RDR-80031BK5, RDR-80031BKU, RDR-80031BKU-V2-C06, RDR-80031BKU-V2-C16, RDR-80031BK9, RDR-80031BK0	RDR-80M31BKU, RDR-80M32BKU
Secure Access Module	N/A	HID OMNIKEY	MIFARE Secure
Secure Technology Type	N/A	HID SEOS iClass SE	DESFire EV1/EV2/EV3; Classic; Plus; Ultralight/Ultralight-C
Operating Frequency	125/132 kHz and 13.56 MHz		
Electrical/Mechanical Interface	USB-A, C/Virtual Com/RS-232 Serial/Ethernet		USB
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID or ASCII		Keystroke
Dimensions (L x W x H)	Length 2.9" (74mm); Width 1.7" (42mm); Height 0.5" (13mm)		
Weight	4.0 ounces (113.39g)		
Housing Color	Black		
Cable Length	6' standard; 6" and 16" lengths available		
Indicators	Quad-state LED (off, green, amber, red) and adjustable beeper (off, low, medium, high)		
Power Supply	USB self-powered; some RS-232 models require external power source		USB self-powered
Power Consumption	65 mA typical, 185 mA maximum		
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)		
Certifications	FCC-United States; CE Mark-Europe; RCM-Australia; IC-Industry Canada; UL Environmental: RoHS, REACH		
Compatible Operating Systems	Windows 10 (34 & 64 bit), 11® (64 bit), MacOS Monterey and above, Linux Linux Ubuntu 20.04 and above (64bit) Chromium Web Browsers (WebSDK), Google Chrome (Linux, Mac, or ChromeOS), Microsoft Edge (Linux & MacOS), Opera (Linux), Android 14 and below**, Rasberry Pi 3b & Pi 4 (Debian 11 Bullseye (64 & 32 bit) ** Android - versions 10 and above require custom firmware		
Configuration Utilities	rf IDEAS Configuration Utility, Smart Card Manager, Remote Reader Management Tool		
Proximity Card Types (125/132 kHz) Contactless Smartcard Types (13.56MHz)			
NFCx, Mobile Credentials (13.56MHz)			
Accessories	BKT-MINI: Mini Desktop Mounting Bracket KT-ANGLE-MINI: WAVE ID Black Angle Mini Mounting Bracket KT-ANGLE-MINI+CLIPS: WAVE ID Black Angle Mini Mounting Bracket w/Cable Clips KT-FLAT-MINI: WAVE ID Black Angle Mini Mounting Dual Lock Kit		