

HF | NFC - Stationary Reader rf IDEAS - WAVE ID® Plus Surface Mount

- ISO 14443 A/B, ISO 15693, ISO 18092
- Integrated ISO 7816 SAM Slot
- USB & RS-232 interface
- Reader/Writer, Card Emulation & Keyboard Emulation
- Firmware upgradeable



HF | NFC - Stationary Reader Secure NFC Reader Module with SAM Slot

The ACM1552D-C7, USB/Serial NFC Reader Module(With SAM Slot) is designed with 13.56 MHz contactless technology, supporting ISO 14443 Parts 1-4 Type A and B cards, MIFARE Classic® series, ISO 15693, and ISO 18092 standards. It features USB/RS232 interface and offers a card reading distance of up to 70 mm.

This Plug and Play device includes an ISO 7816-compliant SAM slot for high-level security in contactless transactions, ensuring easy integration into embedded systems. It achieves high-speed communication at up to 848 Kbps for ISO 14443 and 26 Kbps for ISO 15693.

The ACM1552D-C7 supports card reader/writer mode, card emulation mode and Keyboard Emulation (USB interface only), making it a versatile, cost-effective choice for applications like vending machine payment systems, kiosks, and gaming machines. It also features an integrated antenna, USB firmware upgradeability, and extended APDU support.

Common Applications

- Secure Access Control
- Point of Sale (POS)
- Healthcare Authentication
- Government Authentication
- Education & Campus ID
- Events & Hospitality

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TECHNICAL SPECIFICATIONS

Reader Models	RDR-805W2BKU, RDR-805W1BKB-P, RDR-805W1BKU-C72, RDR-805W1BK6, RDR-805W1BK0, RDR-805W1BKE-P, RDR-805W1BK5, RDR-805W1BKU-C36, RDR-805W1BK5, RDR-805W1BK5, RDR-805W6BKU, RDR-805W1BK0, RDR-805W1BK8, RDR-805W1BK9, RDR-805W1BK0-C	RDR-800W1BKU, RDR-800W1BKU-C72, RDR-800W1BKB-P, RDR-800W1BK5, RDR-800W1BKE-P, RDR-800W1BKB, RDR-800W1BK8, RDR-800W1BKU-C36, RDR-800W1BK7, RDR-800W1BKB-P, RDR-800W2BKU, RDR-800W1BK0-C	RDR-80MW1BKU
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-A
Protocol/Operating Mode	Keystroke or rf IDEAS SDK		Keystroke
Dimensions (L x W x H)	4.5" x 2.75" x 0.62" (114.3 mm x 69.8 0mm x 15.6 mm)		
Weight	2.5 ounces (71 g)		
Housing Color	Black		
Indicators	Quad-state LED (off, green, amber, red) and adjustable beeper (off, low, medium, high)		
Power Supply	USB self-powered; some RS-232 and Ethernet models require external power source		
Power Consumption	70 mA typical, 150 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	Keystroke: USB HID keyboards compliant with USB protocol SDK: Windows 10 (30 & 64 bit), 11 (64 bit), MacOS Monterey and above, 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**, Raspberry Pi 3b & Pi 4 (Debian 11 Bullseye (64 & 32 bit) ** Android - versions 10 and above require custom firmware		
Configuration Utilities	Windows 10 (32 & 64 bit), 11 (64 bit), MacOS Monterey and above, Linux		
Proximity Card Types (125/132 kHz)			
ContactlessSmartcard Types (13.56MHz)			
Accessories	KT-IP67 - IP67 rated housing kit		