IDCR@FT
RFID & NFC EXPERTS

HF | LF - Reader Module
rf IDEAS - WAVE ID® Plus OEM Micro

- Dual-Frequency RFID: 125 kHz (LF) + 13.56 MHz (ISO 14443)
- Modular OEM form factors: Nano, Pico, Micro and Plus
- Supports PSIA PKOC mobile credential standard
- CCID support and rf IDEAS SDK available
- Windows & Linux compatible

HF | LF - Stationary Reader
Embedding Trust into Your Technology

The WAVE ID® Embedded OEM Portfolio provides integrated RFID and NFC authentication solutions for OEM manufacturers requiring secure, built-in access control. Designed for seamless integration, the portfolio enables device-level authentication without external readers.
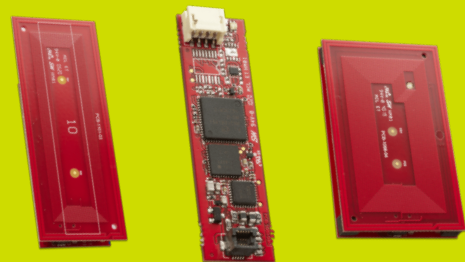
Multiple OEM form factors support flexible mechanical integration across space-constrained and industrial designs. Broad credential compatibility allows reuse of existing physical badges and mobile credentials, reducing infrastructure changes while improving security and usability.

The portfolio supports standardized USB interfaces, CCID operation and SDK-based integration, enabling fast deployment across Windows, Linux, macOS and Android platforms. Engineered for long lifecycle products, WAVE ID embedded readers are suitable for regulated and mission-critical environments.

Common Applications

- Medical devices and healthcare workstations
- Manufacturing equipment and HMIs
- Multi-function printers and enterprise peripherals
- Kiosks and self-service terminals
- EV chargers and smart infrastructure
- Mobile carts and portable equipment

rf IDEAS

TECHNICAL SPECIFICATIONS

Reader Models	805	800	80M
Secure Access Module	N/A	HID OMNIKEY	MIFARE Secure
Secure Technology Type	N/A	HID SEOS iClass SE	MIFARE EV1, EV2, EV3, Classic, Ultralight
Operating Frequency	125/132 kHz and 13.56 MHz		
Electrical/Mechanical Interface	USB-A		
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID or Virtual Com or ASCII		Keystroke or rf IDEAS SDK
Dimensions (L x W x H)	2.7" x 1.1" x 0.3" (69mm x 27mm x 7.8mm)		
Weight without cable or SAM	0.2 oz (6.8 grams)		
Indicators	Quad-state LED (off, green, amber, red) and adjustable beeper (off, low, medium, high)		
Power Supply	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		
MTBF	7 years		
Certifications	FCC-United States; CE Mark-Europe; RCM-Australia; IC-Industry Canada; UL Environmental: RoHS, REACH		
Compatible Operating Systems	Windows XP®, 7®, 8®, 10®, 11® and Linux (Ubuntu, Red Hat), macOS and Android		
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, Wallet Credentials (13.56MHz)			
Accessories	Cables, KT-4FF-SIM-SE-V2 or KT-4FF-SIM-AV2	Cables	