EMBEDDING **TRUST** INTO YOUR TECHNOLOGY

From manufacturing to healthcare, we bring safety and security to your end products with the flexible authentication solutions within our WAVE ID® Embedded OEM Portfolio.

rf **IDEAS**

We Help You Add Safe, Trusted Authentication to All Your Product Designs.

Today, trust is at the heart of technologies used by millions of people across every sector. As a global leader in identity authentication technologies, rf IDEAS® works with leading OEMs to embed security into a wide range of products and hardware platforms.

What sets us apart is our commitment to modular, flexible authentication solutions that complement and advance your designs. We build partnerships based on 30 years of expertise, a wide range of versatile OEM form factors and the solid support you'd expect from an industry leader.

See for yourself what our WAVE ID Embedded OEM portfolio can bring to your next design.

WAVE ID® Plus OEM Micro:
69mm x 27mm (2.7" x 1.1")

WAVE ID® Plus OEM:
59mm x 36mm (2.3" x 1.4")
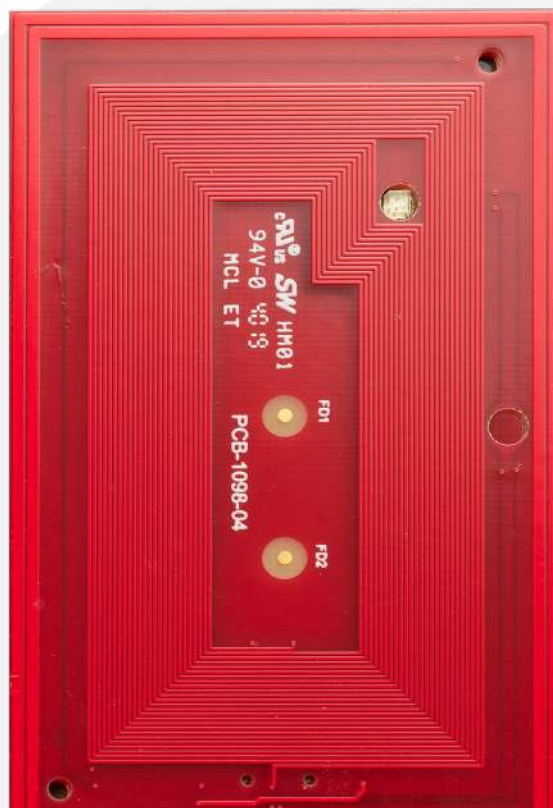
WAVE ID® Plus OEM Pico:
50mm x 14mm (2.0" x 0.6")

A Next-Generation Portfolio of OEM Authentication Technologies.

We developed our OEM product line to help you better navigate a higher level of trust into every product you design. Whether you are looking for built-in authentication to meet evolving regulations or seeking a competitive-edge for an integration ready product for your end customer - rf IDEAS is go-to authentication partner.

Benefits of OEM Readers

OEM embedded readers ensure only intended users have access to specialized equipment or devices. When your end customers' ecosystem relies on devices that contain sensitive patient data, or can only be used by safety-certified personal, providing a reliable, secure authentication solution built-in directly to your product can be a critical factor in securing workflows, data and processes.

Our readers offer unprecedented compatibility with built-in security - that brings confidence to you and your end customer. rf IDEAS's team of experts has intimate knowledge of your customer base, so we can collaborate to find the best RFID solution that adds the value of built-in security that elevates your product and secures the end customer. For your end customers, they get a product that seamlessly integrates into their existing infrastructure - leveraging their existing credentials and unlocking access to key end points that were not possible before.

Built-Ready for Secure Access

rf IDEAS credential readers work with virtually every proximity and contactless smart card worldwide, and are now compatible with some of the leading digital wallet providers like Apple, Google and Samsung. We continue to grow our compatibility of credential providers; our readers support the power of HID employee badge and LEGIC employee badge in Wallet. Our portfolio of embedded OEM readers provides high-quality user authentication across critical industries like healthcare and manufacturing. Some of our successful OEM deployments include:

- Multi-Function Printers
- Monitors and Laptops
- Human-Machine Interfaces (HMI)
- Programmable Logic Controllers (PLC)
- SCADA (Supervisory Control and Data Acquisition) Systems
- Time Clocks
- Forklifts
- Tool Cribs
- Dispensing/Vending Machines
- EV Chargers
- Ultrasound Machines
- C-Arms
- Portable X-Rays
- Medical Carts / Workstations
- Patient Monitors
- Picture Archiving & Communication System (PACS)

rf IDEAS Embedded OEM Portfolio

WAVE ID® Plus OEM

Reader Models	805	800	80M	30L
Secure Access Module	N/A	HID OMNIKEY	MIFARE DESFire	LEGIC SM-6300
Secure Technology Type	N/A	HID SEOS iClass SE	MIFARE EV1, EV2, EV3, Classic, Ultralight	MIFARE EV1, EV2, EV3, Classic, Ultralight, LEGIC prime, LEGIC advant, LEGIC SECURE
Operating Frequency	125/132 kHz and 13.56 MHz			125/132 kHz, 13.56 MHz, 2.4GHz
Electrical/Mechanical Interface	USB-A/Virtual Com/RS-232 Serial/Ethernet		USB-A	USB-A
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID or ASCII		Keystroke or rf IDEAS SDK	Keystroke or rf IDEAS SDK
Dimensions (L x W x H)	2.3" x 1.4" x 0.3" (59mm x 36mm x 8.4mm)			
Weight without cable or SAM	0.4 oz (10 grams)			
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			
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 (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®, 10®, 11® and Linux (Ubuntu, Red Hat), macOS and Android			
Configuration Utilities (available on rf IDEAS support page)	rf IDEAS Configuration Utility, Smart Card Manager, Remote Reader Management Tool			
Proximity Card Types (125/132 kHz)				
Contactless Smartcard Types (13.56MHz)	Supported Card Type Listing		Mobile Credential Access Compatibility Chart	
NFCx, Wallet Credentials (13.56MHz)				
Accessories	Cables, KT-SIM-SE-V2 or KT-SIM-AV2	Cables, KT-SIM-AV2	Cables, KT-SIM-SE-V2	Cables, KT-SIM-SE-V2 or KT-SIM-AV2

rf IDEAS Embedded OEM Portfolio

WAVE ID® Plus OEM Micro

Reader Models	805	800	80M
Secure Access Module	N/A	HID OMNIKEY	MIFARE DESFire
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/Virtual Com/RS-232 Serial/Ethernet		USB-A
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID 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; some RS-232 models require external power source		
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 (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®, 10®, 11® and Linux (Ubuntu, Red Hat), macOS and Android		
Configuration Utilities (available on rf IDEAS support page)	rf IDEAS Configuration Utility, Smart Card Manager, Remote Reader Management Tool		
Proximity Card Types (125/132 kHz)			
Contactless Smartcard Types (13.56MHz)	Supported Card Type Listing Mobile Credential Access Compatibility Chart		
NFCx, Wallet Credentials (13.56MHz)			
Accessories	Cables, KT-SIM-SE-V2 or KT-SIM-AV2	Cables, KT-SIM-AV2	Cables, KT-SIM-SE-V2

rf IDEAS Embedded OEM Portfolio

WAVE ID® Plus OEM Pico

Reader Models	805	800	80M
Secure Access Module	N/A	HID OMNIKEY	MIFARE DESFire
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/Virtual Com/RS-232 Serial/Ethernet		USB-A
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID or ASCII		Keystroke or rf IDEAS SDK
Dimensions (L x W x H)	2.0" x 0.6" x 0.3" (50mm x 14mm x 6.3mm)		
Reader & Antenna weight without cable or SAM	0.2 oz (4.5 grams)		
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		
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 (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®, 10®, 11® and Linux (Ubuntu, Red Hat), macOS and Android		
Configuration Utilities (available on rf IDEAS support page)	rf IDEAS Configuration Utility, Smart Card Manager, Remote Reader Management Tool		
Proximity Card Types (125/132 kHz)			
Contactless Smartcard Types (13.56MHz)	Supported Card Type Listing	Mobile Credential Access Compatibility Chart	
NFCx, Wallet Credentials (13.56MHz)			
Accessories	Cables, KT-SIM-SE-V2 or KT-SIM-AV2	Cables, KT-SIM-AV2	Cables, KT-SIM-SE-V2

rf IDEAS Embedded OEM Portfolio

WAVE ID® Plus OEM Nano

Reader Models	6x	75
Secure Access Module	N/A	N/A
Secure Technology Type	N/A	N/A
Operating Frequency	125/132 kHz	13.56 MHz
Electrical/Mechanical Interface	USB-A	
Protocol/Operating Mode	Keystroke or rf IDEAS SDK or CCID or ASCII	
Dimensions (L x W x H)	1.3" x 0.6" x 0.2" (34 mm x 14 mm x 4 mm)	1.6" x 0.5" x 0.2" (41 mm x 12 mm x 5 mm)
Weight without cable	0.1 oz (3 grams)	0.07 oz (2 grams)
Indicators	N/A	
Power Supply	USB self-powered	
Power Consumption	70 mA Typical, 100 mA maximum	60 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)	
MTBF	7 years	
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. Contact sales@rfIDEAS.com for more country certification information.	
Compatible Operating Systems	Windows XP®, 7®, 8®, 10®, 11® and Linux (Ubuntu, Red Hat), macOS and Android	
Configuration Utilities (available on rf IDEAS support page)	rf IDEAS Configuration Utility, Smart Card Manager, Remote Reader Management Tool	
Proximity Card Types (125/132 kHz)		N/A
Contactless Smartcard Types (13.56MHz)	N/A	

Adding Value Through Partnership

The rf IDEAS team has fostered long-standing partnerships with industry leaders including, Rockwell Automation, LG Electronics, GE Healthcare, HP, Lenovo, Imprivata, Ricoh and more.

The reason? We engineer and deliver OEM solutions that help your products validate authorization, streamline workflows, control costs, improve security and deliver safety to deliver reliable security to the end customer. And we've been leading the way in RFID access for more than 30 years.

As a trusted partner, we work closely and collaboratively with your engineering team to introduce authentication solutions that support your protocols and elevate your design concepts.

Embedding infection control into KSI keyboards

In healthcare settings, shared keyboards are prime vectors for germs to spread. By embedding Wave ID readers into its easy-clean keyboards, Key Source International (KSI) reduced the need for clinicians to make contact with the devices, empowering its healthcare end customers to strengthen infection control.[1] Eliminating the need for an external badge reader also cleared space on cluttered carts and reduced the number of surfaces to sanitize.

Embedding efficiency into Lenovo laptops

With healthcare employees logging into workstations an average of 70 times a day, building passwordless authentication into devices dramatically boosts efficiency.

Lenovo partnered with rf IDEAS to create the ThinkPad T14 Gen 2 Healthcare Edition, enabling tap-and-go login for a major educational healthcare institution with 1,800 providers deployed across multiple locations.[2] A built-in biometric capability enables multi-factor authentication where needed for added security.

Embedding streamlined design into LG All-in-One workstations

With their slim, sleek displays, LG's All-in-One Thin Client computers are designed to take up minimal space at crowded clinical workstations. LG partnered with rf IDEAS to embed WAVE ID readers in their devices, enabling secure access control without sacrificing streamlined design or taking up much-needed ports.

Learn more at
rfideas.com/EmbeddedOEM

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