

TRUST IN YOUR TECHNOLOGY

Bring safety and security to all your products with the WAVE ID® Embedded OEM portfolio of flexible authentication solutions.



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 25 years of expertise, a wide range of versatile OEM form factors and the solid support you'd expect from an industry leader.

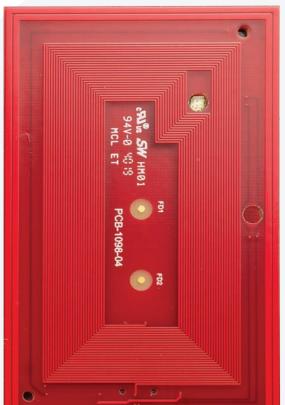
See for yourself what our WAVE ID Embedded OEM portfolio can bring to your next design.

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





WAVE ID® Plus 0EM: 59mm x 36mm (2.3" x 1.4")



A Next-Generation Portfolio of OEM Authentication Technologies.

We recently upgraded our entire OEM product line to help you better integrate a higher level of trust into every product you design. The WAVE ID Embedded OEM portfolio now offers the modularity, flexibility and authentication performance that today's users demand.

If You Make It, We'll Make It Secure

rf IDEAS credential readers work with virtually every proximity and contactless smart card worldwide. You'll find our newest embedded OEM readers providing high-quality user authentication in a growing array of products including:

- Multi-Function Printers
- Medical Carts
- Medical Equipment
- Human-Machine Interfaces (HMI)
- Workstations
- Tool Cabinets
- Point of Sale
- Industrial Vending Machines
- · All-in-One Computers
- Notebook Computers
- Kiosks
- Time & Attendance
- Keyboards
- Electronic White Boards

Adding Value Through Partnership

The rf IDEAS team has fostered long-standing partnerships with industry leaders including HP, Lenovo, Imprivata and Ricoh, just to name a few.

The reason? We engineer and deliver OEM solutions that help your products validate authorization, streamline workflows, control costs, improve security and deliver safety to demanding users. And we've been leading the way in RFID access for more than 25 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.



rf IDEAS Embedded OEM Portfolio

WAVE ID® Solo

	WAVE ID® Solo Non-Housed 13.56 MHz	WAVE ID® Plus Non-Housed	WAVE ID® Plus SP Embedded/Integrated/OEM	
WAVE ID Solo and WAVE ID Plus 0EM and Non-Housed Modules	M Bay 0	W Wind		
Standard Features	Single Frequency	Dual Frequency	Dual Frequency	
Model Series	13.56 MHz Contactless Smart Card	125/132 kHz and 13.56 MHz	125/132 kHz and 13.56 MHz	
USB Keystroke	RDR-75N1AKU	RDR-80xN1AKU RDR-80xN1AKU-WM (Connectorized)	RDR-805H1AKU RDR-805H1AKU-X RDR-805H1AKU-X-C72 RDR-805H1AKU-X2 RDR-80MH1AKU RDR-80MH1AKU RDR-80HH1AKU-LF RDR-80LH1AKU RDR-80LH1AKU	
USB SDK — raw data	N/A	RDR-80xN2AKU RDR-80xN2AKU-WM (Connectorized)	RDR-805H2AKU	
Serial/UART (Contact rf IDEAS for more options)	RDR-75N1AK5 5V Pin 9	RDR-80xN1-2 No cable RDR-80xN1-2-WM No cable (Connectorized) RDR-80xN1AK2 5V PS/2 RDR-80xN1AK5 5V Pin 9 RDR-80xN1AK6 9V Pin 9 RDR-80xN1AK7 9V Ext PS RDR-80xN1AK8 5V Ext PS RDR-80xN1AK9 5V USB PWr	N/A	
Number of Configurations	1	4	4	
Interface(s)	USB, Serial	USB, Serial	USB	
(Contact rf IDEAS for more models)				
Physical Characteristics	76 mm x 47 mm x 14 mm	76 mm x 47 mm x 16 mm	66 mm x 44 mm x 11 mm	
Dimensions	(3.0" x 1.9" x 0.6")	(3.0" x 1.9" x 0.6")	(2.6" x 1.7" x 0.4")	
Weight	28 grams (1 ounce)	28 grams (1 ounce)	15 grams (.52 ounces)	
Connector Type	USB, Ethernet or RS232 DB9	USB, RS232 DB9	USB	
Mechanical Installation Type	N/A	N/A	Embedded or external reader with double-face tape	
Audio Prompts (Beep)	Yes	Adjustable beeper volume	Adjustable beeper volume	
Visual Prompts (LED)	Tri-state LED	Tri-state LED	Tri-state LED	
Power Supply	USB self-powered; PoE	USB self-powered; PoE, external 5V or 9V power supply	USB self-powered	
Power Consumption	USB: 70 mA Typical, 100 mA maximum	USB: 70 mA Typical, 125 mA maximum Serial units: 60 mA Typical, maximum 90 mA	70 mA Typical, maximum 100 mA	
Environmental				
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	FCC, Industry Canada, CE Mark, RCM, RoHS, Reach. Contact sales@rflDeas.com for more country certification information.			
Compatible Operating Systems	Windows XP®/7®/8®/10® and above; Linux; Dell Wyse ThinOS			
Supported Card Types	https://www.rfideas.com/support/tools/supported-card-types			

WAVE ID® Plus Non-Housed

WAVE ID® Plus SP

rf IDEAS Embedded OEM Portfolio

("-X": no cable; "-S": with 4FF SIM socket)

	WAVE ID® Plus 0EM		
WAVE ID Solo and WAVE ID Plus 0EM and Non-Housed Modules			
Standard Features	Dual Frequency		
Model Series	125/132 kHz and 13.56 MHz	BLE , 125/132kHz and 13.56MHz	
USB Keystroke	WAVE ID® Plus 0EM V2 USB OEM-80xN11KU OEM-80xN11KU-X OEM-80xN11KU-S OEM-80xN11KU-S-X	WAVE ID® Plus 0EM Mobile OEM-300N11KU, 0EM-300N11KU-X, OEM-305N11KU, 0EM-305N11KU-X (BLE113 module, RDR-30xxxAKU-equivalent) OEM-300N11KU-BGM, 0EM-300N11KU-BGM-X, OEM-305N11KU-BGM, 0EM-305N11KU-BGM-X (Pack ID or WAVE ID Mobile credentials, RDR-30xxxBKU-equivalent)	
	WAVE ID® Plus OEM Micro USB	WAVE ID® Plus 0EM Micro Mobile	
	OEM-80xN13KU OEM-80xN13KU-X WAVE ID® Plus EM Pico USB OEM-80xN14KU OEM-80xN14KU-X	OEM-300N13KU, OEM-300N13KU-X, OEM-305N13KU, OEM-305N13KU-X (BLE113 module, RDR-30xxxAKU-equivalent) OEM-300N13KU-BGM, OEM-300N13KU-BGM-X, OEM-305N13KU-BGM, OEM-305N13KU-BGM-X (Pack ID or WAVE ID Mobile credentials, RDR-30xxxBKU-equivalent)	
	WAVE ID® Plus 0EM V2 USB	WAVE ID® Plus 0EM Mobile	
	OEM-80xN21KU OEM-80xN21KU-X OEM-80xN21KU-S OEM-80xN21KU-S-X	OEM-300N21KU, OEM-300N21KU-X, OEM-305N21KU, OEM-305N21KU-X (BLE113 module, RDR-30xxxAKU-equivalent) OEM-300N21KU-BGM, OEM-300N21KU-BGM-X, OEM-305N21KU-BGM, OEM-305N21KU-BGM-X (Pack ID or WAVE ID Mobile credentials, RDR-30xxxBKU-equivalent)	
SDK/Non-keystroke – raw data	WAVE ID® Plus OEM Micro USB	WAVE ID® Plus 0EM Micro Mobile	
	OEM-80xN23KU OEM-80xN23KU-X WAVE ID® Plus OEM Pico USB OEM-80xN24KU OEM-80xN24KU-X	OEM-300N23KU, OEM-300N23KU-X, OEM-305N23KU, OEM-305N23KU-X (BLE113 module, RDR-30xxxAKU-equivalent) OEM-300N23KU-BGM, OEM-300N23KU-BGM-X, OEM-305N23KU-BGM, OEM-305N23KU-BGM-X (Pack ID or WAVE ID Mobile credentials, RDR-30xxxBKU-equivalent)	
Serial/UART (Contact rf IDEAS for more options)	WAVE ID® Plus 0EM V2 Serial Keystroke 0EM-80xN11K5 0EM-80xN11K5-X 0EM-80xN11KV-X WAVE ID® Plus 0EM Micro Serial Keystroke 0EM-80xN13K5 0EM-80xN13K5-X 0EM-80xN13KV-X WAVE ID® Plus 0EM Pico Serial Keystroke 0EM-80xN14K5 0EM-80xN14K5 0EM-80xN14K5-X 0EM-80xN14KV-X WAVE ID® Plus 0EM V2 Serial SDK 0EM-80xN21K5 0EM-80xN21K5-X 0EM-80xN21KV-X WAVE ID® Plus 0EM Micro Serial SDK 0EM-80xN23K5 0EM-80xN23K5 0EM-80xN23K5-X 0EM-80xN23KV-X WAVE ID® Plus 0EM Pico Serial SDK 0EM-80xN23K5-X 0EM-80xN23KV-X WAVE ID® Plus 0EM Pico Serial SDK	N/A	
Number of Configurations	4		
Interface(s)	USB, UART, Serial, Ethernet,		
(Contact rf IDEAS for more models)	BLE (select models)	USB	

WAVE ID® Plus 0EM

rf IDEAS Embedded OEM Portfolio

(continued)	WAVE ID® Plus 0EM		
WAVE ID Solo and WAVE ID Plus OEM and Non-Housed Modules			
Physical Characteristics			
Dimensions	WAVE ID® Plus 0EM	WAVE ID® Plus OEM Mobile	
	59mm x 36mm (2.3" x 1.4")		
	WAVE ID® Plus OEM Micro	WAVE ID® Plus 0EM Micro Mobile	
	69mm x 27mm (2.7" x 1.1")		
	WAVE ID® Plus 0EM Pico		
	50mm x 14mm (2.0" x 0.6")		
Weight	10 grams (0.4 ounces)		
Connector Type	USB		
Mechanical Installation Type	N/A		
Audio Prompts (Beep)	Adjustable beeper volume (off, low, medium, high)	Yes	
Visual Prompts (LED)	LED indicator (green, amber, red)	Yes	
Power Supply	USB powered		
Power Consumption	65 mA typical, 100 mA maximum	Reader only: 70 mA typical, 100 mA maximum Reader and Bluetooth on: 85mA typical, 120 mA maximum	
Environmental			
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	FCC, Industry Canada, CE Mark, RCM, RoHS, Reach, and more than 50 countries worldwide. Contact sales@rflDeas.com for more country certification information.		
Compatible Operating Systems	Windows XP®/7®/8®/10® and above; Linux; Dell Wyse ThinOS	Windows XP®, 7®, 8.1®, 10® and Linux	
Supported Card Types	https://www.rfideas.com/support/tools/supported-card-types		

WAVE ID Plus 0EM Pico does not come with an integrated antenna. Please contact rf IDEAS for antenna options.



About rf IDEAS

rf IDEAS, founded in 1995, is the innovator of WAVE ID® technology, the standard for credential-based authentication and identification solutions powered by rf IDEAS® readers. rf IDEAS manufactures a complete line of card readers and products that support nearly every proximity and contactless smart card in use worldwide.

rf IDEAS readers are used in numerous applications such as single sign-on, secure printing and attendance-tracking across several vertical markets including healthcare, manufacturing, government and enterprise. rf IDEAS is a subsidiary of Roper Technologies, a constituent of the S&P 500, Fortune 1000, and the Russell 1000 indices.

Applications



Secure Print

Add the ability to use the existing employee ID badge system to access and interact with



Mobile Credentials

Enable the simplicity and convenience of using mobile devices for identification and authentication throughout the workplace with readers that incorporate **Bluetooth®** Low Energy technology.



Single Sign-on

Simplify the log-on and log-off process with a wave or tap of an employee badge for identification and authentication, granting users access into their desktop and other applications.



Manufacturing

Use the existing employee ID badge system for secure access to automation, data collection, quality control and job costing.



Attendance Tracking

Track time and attendance to increase overall workforce productivity and reduce payroll errors, giving the existing employee ID badge more versatility.



Point of Sale

Using the existing employee ID badge system, users can make cashless transactions with customized, easy-to-manage solutions throughout the facility.



Dispensing

Provide secure, automated access to material for items requiring high levels of control and compliance.



Biometrics

Provide identification and authorized access to areas and systems with high-level controlled security, along with monitoring and tracking user credentials.











