

WebENTRA SE BLE Mobile Readers

The **WebENTRA R500** series are secure NFC mobile access readers with built-in BLE (Bluetooth Low Energy) for fast and secure authentication. These readers support mobile device access, eliminating the need for physical cards, with full control via the IBSSgo cloud management system.

Compatible with ADNET, OSDP, and Wiegand, the R500 integrates seamlessly with traditional access control systems or can be paired with a cloud interface unit (CIU) for a cost-effective, controller-free setup.

Ideal for corporate offices, residential developments, turnstiles, car parks, public infrastructures, and remote facilities, the R500 offers versatile and modern access control solutions.



Key Features



- NFC and Bluetooth (BLE) for fast and secure operation with mobile access*



- Individually addressable RGB LEDs to customize animated patterns for easy



- Enhanced security design using crypto CPU with anti-tamper features



- Option Ethernet for built-in PoE (Power over Ethernet) support



- Supports 4 modes of operation— NFC, Remote, Vicinity & Wave*



- Polyphonic sounder to customize tones and loudness



- RS485 interface that supports ADNET and **OSDP



- Mullion, wall switch and keypad options available

* Require IBSSgo & GoENTRA subscription

** Upcoming feature

Modes of Operation

Four modes of operation offer optimum mix of security and convenience:

Vicinity*

- The vicinity mode gives users the convenience to unlock a nearby door or barrier from their mobile device by selecting from a list of connected mobile readers.

Near Field Communications (NFC)

- The NFC mode supports highly secure and intentional operation with the use of contactless smartcards and **mobile phones.
Typical operating range: 2-4cm

Wave*

- The wave mode allows users to establish a secure connection between a mobile device and nearby reader with a simple hand wave. Ideal for busy executives.
Typical operating range: 50cm

Remote**

- The remote mode allows users to unlock a remote door or barrier from their mobile phone, offering convenience without having to be physically present at the remote location.

* Require IBSSgo & GoENTRA subscription

** Upcoming feature

Mobile Access Applications and Operation Modes*

Application	Vicinity	Wave	NFC**	Remote**	Preferred Mode of Operation
Turnstiles		//	//		Wave/NFC Short range, intentional access
Car Park	//	/	/		Vicinity Long range, hands-free operation
Hospitals	/	//	/		Wave Hands-free, contactless operation
Office Door		//	/		Wave Hands-free , contactless operation
Building Main Entrance	//	/	/		Vicinity Long range, hands-free operation
Meeting Room	//	//	/		Vicinity/Wave Hands-free, contactless operation
Unmanned Facilities			/	//	Remote Secure operation without physical presence
Roller Shutter	//		/		Vicinity Long range, hands-free operation
Lift Car/Lobby	//	//			Vicinity/Wave Hands-free, contactless operation
Lab/ Workshop		//	/		Wave Hands-free, contactless operation

/ = Recommended // = Preferred * Require IBSSgo & GoENTRA subscription ** Upcoming feature

Technical Specifications

Specifications***	R502STSE	R512STSE	R513STSE	R512STSEK	R513STSEK	R514STSEK
Description	R502ST WebENTRA SE Bluetooth Mobile Reader	R512ST WebENTRA SE Bluetooth Mobile Reader	R513ST WebENTRA SE Bluetooth Mobile Reader with SAM	R512ST WebENTRA SE Bluetooth Mobile Reader with Keypad	R513ST WebENTRA SE Bluetooth Mobile Reader with Keypad & SAM	R514ST WebENTRA SE Bluetooth Mobile Reader with Keypad, SAM & PoE
Form Factor	Mullion	Wall switch		Wall switch with keypad		
NFC Frequency/ISO	13.56MHz / ISO14443 Type A, B					
NFC Operating Range	20 to 40 mm	20 to 80 mm				
BLE Version/Freq	5.0 BLE / 2.4GHz					
BLE Operating Range	0.1 to 10m					
Wave Sensor	Yes					
Interface Ports	Wiegand In, Wiegand Out, RS485					
Wiegand Formats	26, 32, 37, 40, 56, 80, 168 (ASIS) bits format and 8-digit 32, 37, 40					
RS485	ADNET & **OSDP					
Ethernet with POE	No					Yes
LED Display/Sounder	9 x RGB individually addressable / Polyphonic sounder					
Crypto CPU	Yes					
SAM Support	No		Yes	No	Yes	
Dimension (HxWxD)	115x50x25 mm	115x65x25 mm				
Power Input	12 - 15 VDC, 0.2A					
Environment	Weatherproof					

* Require IBSSgo & GoENTRA subscription

** Upcoming feature

*** Specifications are subject to change without prior notice

Ordering Information

Model No.	Description
R502STSE	R502ST WebENTRA SE Bluetooth Mobile Reader
R512STSE	R512ST WebENTRA SE Bluetooth Mobile Reader
R513STSE	R513ST WebENTRA SE Bluetooth Mobile Reader with SAM
R512STSEK	R512ST WebENTRA SE Bluetooth Mobile Reader with Keypad
R513STSEK	R513ST WebENTRA SE Bluetooth Mobile Reader with Keypad & SAM
R514STSEK	R514ST WebENTRA SE Bluetooth Mobile Reader with Keypad, SAM & PoE