

## WebENTRA R300 Secure Encryption (SE) Reader

The **WebENTRA R300** series is a secured encryption NFC reader capable of handling demanding contactless smartcard reader applications. With a 32bit ARM Cortex-M CPU and built-in hardware Cryptographic Acceleration Unit it can support AES128 and 3DES encryption algorithms. Secret keys for encryption can be stored in either Secured Access Modules (SAM) or internal reader memory.

The R385 has a color TFT LCD with touch screen supporting scrambled PIN entry that greatly enhanced security. Options are available for touch capacitive PIN entry or reader only configuration.

The R300 series offers many connectivity options. The built-in RS485 interface support both the ADNET and the OSDP protocols. For connection to traditional controllers, Wiegand interface is also available.

### WebENTRA READER Series



### Key Features



- Touchscreen colour LCD with scrambled PIN entry\*
- Touch capacitive keypad (R303SE only)



- Support secure encryption with AES128, 3DES and CMAC cryptography



- Support up to 2x SAM\*\*



- Configurable scrolling message from IBSS.web\*



- Configurable time-based greeting upon presenting access card\*



- Built-in tamper alarm, if the device sense someone tampering with the device an alarm will go off to alert surrounding\*\*



- Function key to control any electrical appliance or internal event action\*



- Option for secure encryption key in SAM or reader's secured on-chip memory



- OSDP v2 for more secure transmission
- Compatible with 3rd party controller via OSDP or Wiegand interface



- Time clock mode for integration with 3rd party attendance system\*



- Display card holder name upon presenting access card\*



- PIN change capability directly from the reader's LCD touchscreen\*

\* Only available on R385SE-SAM & R385SE models.

\*\* Only available on R385SE-SAM, R385SE & R381SE-SAM.

## Technical Specifications

Specifications***	R385SE-SAM	R381SE-SAM	R385SE	R303SE	R301SE
Description	SE Reader with Touch Screen Color LCD and SAM	SE Reader Only with SAM	SE Reader with Touch Screen Color LCD	SE Reader with Touch Sensing Keypad	SE Reader Only
Contactless Technology	NFC, ISO14443A/B and FeliCa				
LCD	TFT Color LCD, 240x320 with Touch Capacitive	-	TFT Color LCD, 240x320 with Touch Capacitive	-	-
Keypad	Capacitive Touchscreen	-	Capacitive Touchscreen	Touch Capacitive Keypad	-
Scrambled PIN	Yes	-	Yes	-	-
Encryption Key in SAM	Up to 2 x SAM in 2FF/Mini SIM	Up to 2 x SAM in 2FF/Mini SIM	No	No	No
Encryption Key in Reader	Yes	Yes	Yes	Yes	Yes
RS485	Yes, Support ADNET & OSDP (19200bps)				
Wiegand	Yes	Yes	Yes	Yes	Yes
Tamper Switch	Yes	Yes	Yes	No	No
Audio Feedback	Buzzer				
Visual Indicator	3 Color LED				
Protection	IP55				
DC Power Supply	12VDC, 0.3A	12VDC, 0.25A	12VDC, 0.3A	12VDC, 0.2A	12VDC, 0.2A
Operating Temperature	0 – 50 °C				
Humidity	90%				
Dimensions	135 x 76 x 22 mm				
Weight	0.5kg		0.3kg		
Certifications	CE & FCC				

\*\*\*Specifications are subject to change without prior notice

## Ordering Information

Model No.	Description
R385SE-SAM	WebENTRA SE Reader with Touch Screen Color LCD and SAM
R381SE-SAM	WebENTRA SE Reader Only with SAM
R385SE	WebENTRA SE Reader with Touch Screen Color LCD
R303SE	WebENTRA SE Reader with Touch Sensing Keypad
R301SE	WebENTRA SE Reader Only