

# DATA SHEET Mobile Access Reader

The Inner Range Mobile Access Reader is a combined Bluetooth enabled, IP67 rated Smart Card reader that supports both Bluetooth mobile technology and SIFER encrypted card formats for physical access control.

It is a multi-drop RS-485 based reader that employs 128 bit AES encryption from the card through to the door module, providing a far superior level of security than that of traditional Wiegand based card readers. These readers utilise the Mifare DESFire© EV1/EV2/EV3 card format. Mobile Access Readers also support reading the CSN of third party 13.56Mhz credentials

As these readers utilise a superset of the OSDP protocol, the readers may also be deployed on any system capable of using OSDP. These readers are connected to the RS-485 reader port for full Reader-In and Reader-Out operation of various Inner Range products as below:

- Integriti Access Controller (IAC) Up to 16 Readers on-board
- Intelligent LAN Access Module (ILAM) Up to 16 Readers
- Standard LAN Access Module (SLAM) Up to 4 Readers
- Inception Controller Up to 8 Readers on-board

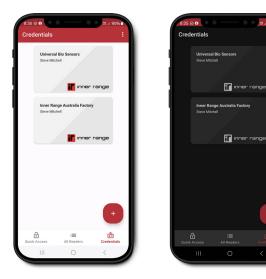
Mobile Access Readers are IP67 rated and available with site-specific encryption keys.

#### **Reader Features**

- Secure 128bit AES Encryption
- Bluetooth enabled Reader
- Encrypted from Reader/Card through to Access Module
- Mifare DESFire© EV1/EV2/EV3 Card Format
- Water & Dust Resistant to IP67
- Vandal Resistant (fully potted)
- Flexible LED colour & function Assignment
- Audible Buzzer (can use as DOTL)
- Multi-drop RS-485 Reader LAN
- Individual Reader Heartbeat Monitoring
- Auto Reader Discovery on Inner Range systems
- OSDP Compatible
- Read Card Serial Number (CSN) From 3rd Party Cards (Multi-Format Version Only)
- Support for Custom Site Codes and Site Specific Encryption
- User Programmable Cards Offer Great Flexibility for Installers
- Global Configuration From Inner Range Systems (including firmware updates)
- Small Footprint (Dimensions:
- 40 mm x 96 mm x 16.5 mm)



SIFER Connectivity	Host Module			
Guide	IAC	SLAM	ILAM	Inception Controller
SIFER Reader Qty	16	4	16	8



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# DATA SHEET Mobile Access Reader

## Specifications

### Physical

Fliysical			Reade
Dimensions:	40 mm x 96 mm x 16.5 mm (26.5 mm with Spacer)	~	
Shipping Weight:	1.575" x 3.78" x 0.65" (1.043" with Spacer)		994723 IR Mobile
Mounting Plate:	108grams (Reader & Accessories) 91.5(L) x 38(W) (mm)	Res and	
Mounting Method:	2 x fixing screws for mounting plate		- ·
Mounting Holes:	65.5mm hole spacing		Crede
Mounting Surface:	Optimised for flat non-metallic surfaces		Mobile Ad
Cavity Cable Entry Hole:	Up to 20mm	Second the lease.	Proble / K
Installation Environment:	-25°C to +65°C (-13°F to +149°F)	teer fange kontek henne Interiorent	99463510
	@15% - 90% relative humidity (non-condensing)	📕 oner mege	Inception
Ingress Protection:	IP67		994635
Reader Protocols			Integriti
Device Communications:	Open Supervised Device Protocol (OSDP)		
Operating Frequency:	13.56 Mhz		
Credentials:	Mifare DESFire© EV1/EV2/EV3 with AES encryption		ISO Cards
Credentials:	Read Card Serial Number (CSN) from 3rd party cards		994610
Connections		SIFER-U 2008 internantie.com 00000	SIFER-P
Pigtail Cable Length:	500mm		(Pre-prog
Pigtail Extension Cable Type:	2-pair 7/0.20 (24AWG) twisted pair data cable as minimum. 2-pair 14/0.20 (21AWG) multi-strand shielded twisted pair data cable is		994612 SIFER-U
	preferred (e.g. Belden 8723). See installation manual for more info.		(User Pro
Connection Methods:	RS-485 multi-drop star or daisy chain configurations		994614** SIFER-C I
Distance to Host Module:	Up to 1000 meters. See installation manual for more information		(Custom I
Max Readers:	Up to 16 with IAC & ILAM, Up to 8 with Inception Controller, Up to 4 with SLAM		994580
Compatible Host Modules:	Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM), Inception Controller, Integriti Access Controller (IAC)		ECOLITE (Pre-prog
Reader Security			
Physical Tamper:	Optical beam to mounting surface		Key FOB'
Card to Reader:	128bit AES encryption		994616
Reader to Access Module:	128bit AES encryption	inner range	SIFER-P
Vandal Resistance:	Fully encapsulated vandal resistant electronics		(Pre prog
Reader Configuration			994618 SIFER-U
LAN Addressing:	Fully automatic when used with Inner Range systems Manual addressing with 3rd party OSDP compatible systems		(User Pro
Firmware Updates:	Over-the-wire firmware updates when used with Inner Range systems		994620* SIFER-C
Reader Purpose Options:	Control a Door, Control a Lift, Log on, Area status toggle		(Custom
LED & Beeper Indicators			
LED Configuration:	Brightness, Colours & Feedback modes - configurable via Integriti Software		
	or Inception Controller		Mana
LED 1 & 2 Colour Options:	RGB Indicator 23 colour selectable	S	
Feedback Modes for LED's:	Area Status, Area Alarm/Isolated, Entry/Exit Delay, Door open/locked status, Valid/Invalid card badge, No LED's		994750 9 Card Pro
Beeper Volume:	Variable - configurable via Integriti software or Inception Controller		994751
Beeper Feedback Options:	Valid/Invalid card badge, Door Open tool long (DOTL), Area Alarm, Entry/Exit Delay		SIFER Ca 994614C
Power Requirements			SIFER -C
Input:	11-14V DC <500mV ripple		Card
Current Consumption:	65-100mA typical, 150mA MAX with all LED's driven at full brightness		
Compliance			Maura
Electrical			Moun
			Acces
Environmental	RoHS 🔀		999037
			10mm Sn

## **Ordering Options**

## Readers

2 bile Access Reader

## dentials

e Access Credentials

35ICP 994635INF ion Infiniti

#### ards 10 -P DESFire© EV3 4K ISO

programmed- Printed) 12 -U DESFire© EV3 4K ISO Programmable - Printed) 4\*\* -C DESFire© EV3 4K ISO om Programmed - Printed)

30 ITE MIFARE Ultralight EV1 programmed)

### OB's 16

-P DESFire© EV3 4K FOB rogrammed - Printed) 18

R-U DESFire© EV3 4K FOB Programmable - Printed) 20\*\*

-C DESFire© EV3 4K FOB om Programmed - Printed)

# nagement Tools

50 SIFER-U Programming Station 51 **Card Enrollment Station** L4CNF\*\* -C Reader Configuration

## unting essories

37 10mm Spacer (For mounting to metal) 999034 Vandal Resistant Cover - standard 999035 Vandal Resistant Cover with inbuilt spacer

\*\*SIFER-C cards are programmed with a custom encryption key and will require at least one SIFER Reader Configuration card with the initial batch.