

# ROSSLARE SECURITY PRODUCTS

## ACCESS CONTROL

Introducing Open to Secure (O2S)

DESFire® EV1/MIFARE Plus®  
Readers & Credentials

# Open to Secure Readers & Credentials



# What Does Credential Security Really Mean?

- Encryption of card data
- Certification of authorship of card data
- Secure storage of access keys – “Secure Sectors”
- Secure data communication between reader and card
- Secure data communication between reader and controller



# Relatively Low Sector Reader Sales To Date

- Unsecure CSN readers are still sold in higher volumes than secure sector readers
  - CSN readers are cheaper than sector readers
  - CSN readers function as legacy 125 kHz readers
- Difficult for distributors and system integrators to manage smart card platform installations due to
  - Cumbersome reader setup
  - Complex card programming
  - Lack of knowledge
  - Time consuming, high labor cost
  - High after-sales service

# O2S – Open, Secure & Simple

## ■ OPEN

- Non-proprietary, Open Credential Standards
  - MIFARE® DESFire® EV1
  - MIFARE Plus® X
  - MIFARE Plus® S
- Supports SIA Open Supervised Device Protocol (OSDP) – Reads any OSDP card format and outputs accordingly

## ■ SECURE

- AES 128-Bit Encrypted Data Communications
- Robust key management

## ■ SIMPLE

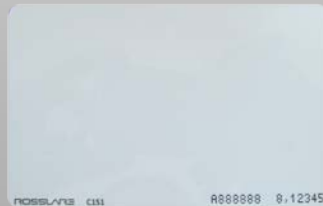
- True plug & play solution - no complex configuration required

# The O2S Reader Lineup



# O2S Credential Lineup

- Supporting a broad array of credential technologies
  - MIFARE DESFire EV1, MIFARE Plus, MIFARE Classic
- And a wide variety of credential formats
  - Wiegand xx-bit
  - OSDP via RS-485 (selected models)
  - Rosslare Clock & Data



# The Need for O2S

- O2S readers and cards are easy to set up and install, just like a low-frequency reader
- O2S readers and cards are pre-programmed at the factory
  - No setup needed for keys on the reader
  - No complex programming of keys and private ID on the credential
- Similar reader cost
- OSDP support option
  - Bi-directional communication paves the way for advanced security applications – Handling of smart cards, public key infrastructure and mobile device access





# O2S Reader/Credential Benefits

- Filling the demand for easy-to-manage smartcard solutions that provide much more than just CSN info
- MIFARE Plus and DESFire EV1 cards encrypt the data and provide high-level secure transmission between card and reader
- Rosslare's versatile card format transmits data to the controller using the protocol programmed to the card, i.e. the reader is transparent
- Preconfigured keys provide a highly secured credential w/o having to program reader or cards – You define the key and we manage it for you
- Easy upgrade from non-secure MIFARE CSN to secure MIFARE Plus/DESFire EV1 in the field

# O2S Reader Model Numbers

| Model             | Keypad | Technology                 |
|-------------------|--------|----------------------------|
| AY-G6270/AY-H6270 | No     | MIFARE Classic/Plus        |
| AY-G6370/AY-H6370 | Yes    | MIFARE Classic/Plus        |
| AY-G6280/AY-H6280 | No     | MIFARE Classic/DESFire EV1 |
| AY-G6380/AY-H6380 | Yes    | MIFARE Classic/DESFire EV1 |

- G = EU gang-box shape, H = mullion shape

# O2S Readers – Hardware Features

- Large RGB LED lens
- SABIC Lexan 241 plastic (black or white)
- Construction meets IP65
- Tactile, blue backlit keypad
- 18" pigtail (terminal block option)
- All-inclusive mounting kit (label, anchors, screws, etc.)
- OSDP option – Interfaces with any OSDP controller
- DESFire EV1 readers include onboard NXP AV1 SAM IC:
  - Highest level AES 128-bit encryption
  - Safe storage of file access keys

# H-Box Prox Only



| Base Model No. | Credential Tech. |
|----------------|------------------|
| AY-H6270       | PLUS X/S         |
| AY-H6280       | DESFire EV1      |

## Fits U.S., UK, and Asia Switch Box

120.0 x 80.0 x 23.0<sup>1</sup> mm

4.72 x 3.15 x 0.91 in.

<sup>1</sup> 31.0 mm (1.21") when ordered with OSDP support or Terminal Block termination

# H-Box Prox & Keypad



| Base Model No. | Credential Tech. |
|----------------|------------------|
| AY-H6370       | PLUS X/S         |
| AY-H6380       | DESFire EV1      |

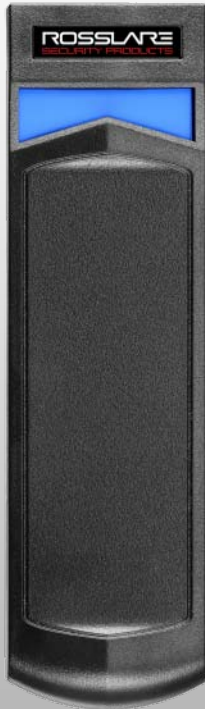
## Fits U.S., UK, and Asia Switch Box

120.0 x 80.0 x 23.0<sup>1</sup> mm

4.72 x 3.15 x 0.91 in.

<sup>1</sup> 31.0 mm (1.21") when ordered with OSDP support or Terminal Block termination

# G-Box Prox Only



| Base Model No. | Credential Tech. |
|----------------|------------------|
| AY-G6270       | PLUS X/S         |
| AY-G6280       | DESFire EV1      |

## For Mullion Mount Installations

145.3 x 42.0 x 23.0<sup>1</sup> mm

5.72 x 1.65 x 0.91 in.

<sup>1</sup> 31.0 mm (1.21") when ordered with OSDP support or Terminal Block termination

# G-Box Prox & Keypad



| Base Model No. | Credential Tech. |
|----------------|------------------|
| AY-G6370       | PLUS X/S         |
| AY-G6380       | DESFire EV1      |

## For Mullion Mount Installations

145.3 x 42.0 x 23.0<sup>1</sup> mm

5.72 x 1.65 x 0.91 in.

<sup>1</sup> 31.0 mm (1.21") when ordered with OSDP support or Terminal Block termination

# O2S Solution Benefits Summary

- Highly-secured smart card solution with minimum effort
- Simple operation
- Easy installation and card enrollment – No need for a programmer
- Transmission format flexibility meeting virtually all customer requirements
- Next-generation OSDP support to move beyond Wiegand
- Earn more revenue and profits by selling O2S format cards





**Thank you!**