



## Symmetry™ S844 Contactless Smart Card Reader Datasheet

### KEY FEATURES

- Reads FIPS 201 end state and transitional smart cards
- Reads both NXP MIFARE and MIFARE DESFire smart cards
- Supports DESfire EV3 cards in backwards compatibility mode
- Secure, bi-directional, pseudo-random supervised communications (MCLP)
- Wiegand communications (restricted functionality)
- Maximum read range of 3" (75mm)
- Integrated door pre-held warning buzzer is included
- Audible feedback provides positive confirmation of card read and key press
- LCD and keypad for verification of card accepted and card rejected
- LCD and keypad is also used for PIN prompt and to give verification of command functions initiated through the reader keypad

The Symmetry S844 is a contactless smart card reader with LCD and keypad designed for government agencies adopting federal personal identity verification standards. The S844 reader supports any badge based on FIPS 201 standards such as TWIC, FRAC, PIV or CAC credentials. In addition to FIPS 201 the Symmetry S844 also reads standard NXP MIFARE® and MIFARE® DESFire smart cards.

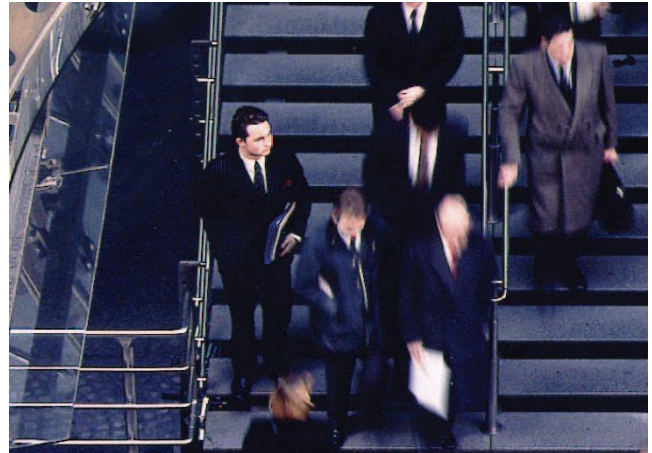
MIFARE DESFire is an ideal fit for service providers and system integrators looking to develop convenient, multi-functional smart card-based systems for use in identity, e-government together with other applications including transportation, city loyalty and e-purse schemes.

The Symmetry S844 is designed for use with the multiNODE-2, multiNODE-2100 and multiNODE-2150 controllers and is compatible with Symmetry Professional, Symmetry Enterprise and Symmetry Global Software.

Unlike Wiegand interface readers, the Symmetry S844 uses secure, bi-directional, pseudo-random supervised communications between the multiNODE controllers and their associated readers. Both the reader and cable are supervised, and an alarm will sound if the reader is tampered with, or communications lost.

A distance from the multiNODE controller to the Symmetry S844 of up to 3000 ft (1000m) can also be achieved.

The Symmetry S844 allows both card and/or PIN and card commands. The LCD display is used for verification of card, PIN prompt and to give verification of command functions initiated through the reader keypad.



## SPECIFICATIONS

### Model Types

- Model Symmetry S844 - card with keypad contactless smart card reader
- Available in ash gray, black and charcoal gray color

### Communicating Distances

- multiNODE-2/multiNODE-2100/multiNODE-M2150 controllers to Symmetry S844 (current loop) = 3000 ft/1000m

### Dimensions Inches (mm)

- Width = 3.8" (97mm)
- Height = 4.9" (125mm)
- Depth = 1.8" (45mm)

### Operating Environment

- -4°F to +158°F (-20°C to +70°C)
- 15% to 90% humidity, non-condensing

Optional weather kit recommended when mounting outside

### Power Requirements

- Nominal 12VDC (9-14V)
- Maximum current consumption 0.15 amp

## APPROVALS

### Federal Information Processing Standard

- FIPS201 APL (Approved Products List)

### Radio Regulatory Approvals

- EN 300 330

### EMC Type Testing

- ETS 300 330 EN 60950:2000
- EN 50357

### Access Control Product Testing

- EN 50133-1:1997
- FCC CFR47 Part 15 Subpart C
- IP656
- R & TTE Directive 1999/5/EC

## PURCHASING INFORMATION

- 844-KP-AG ash gray
- 844-KP-CG charcoal gray
- 844-KP-BK black