

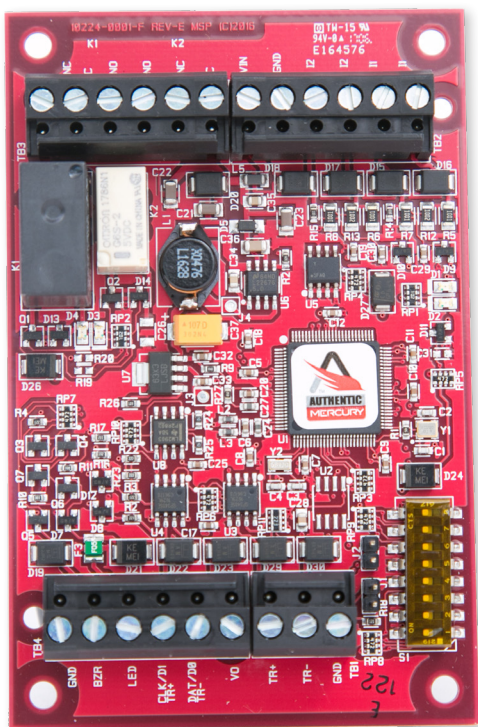


The Series 3 One-Reader Board is the interface between any PremiSys controller and one card reader. It offers an improved processor and increased memory, plus features an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data.

The Series 3 One-Reader Board is an enhanced SIO single card reader interface panel dedicated to individual door oversight and provides all the I/O needed for controlling a single door. Each Series 3 One-Reader Board connects one card reader, two general-purpose input monitor points and two control relays for access control and security monitoring through a PremiSys intelligent controller.

With two-wire RS-485 connectivity, the Series 3 One-Reader Board reader port supports OSDP, OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, and magnetic stripe.

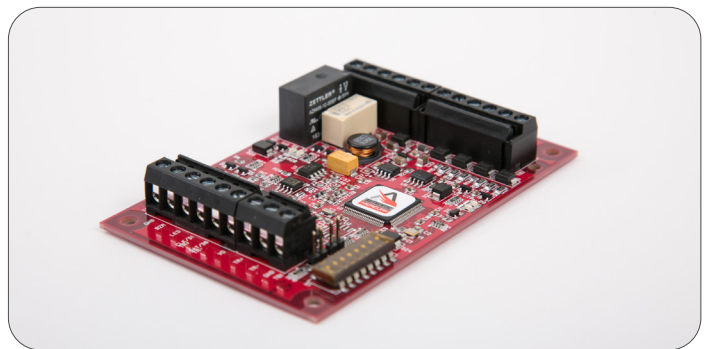
The Series 3 One-Reader Board is the latest generation door interface module for PremiSys intelligent controllers.



## Features

- AES 128/256 bit data encryption
- HSPD-12/FIPS201 compliant
- UL 294 recognized, CE compliant, FCC, RoHS
- Supports OSDP, OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, and magnetic stripe
- RS-485 host connectivity
- **Open Architecture:** High performance, reliable platform
- **OSDP Protocol:** Supports OSDP and Secure Channel protocol for device connectivity
- **Enhanced Security:** Embedded crypto memory chip provides secured layer of encryption to protect sensitive data
- **Versatile Interoperability:** Same reliable interface and identical footprint as the Series 2 One-Reader Board, enabling seamless upgrades for existing installations

### Mercury Part # MR50-S3



## PremiSys® Series 3 One-Reader Board

PREM-BRD1RDR-S3

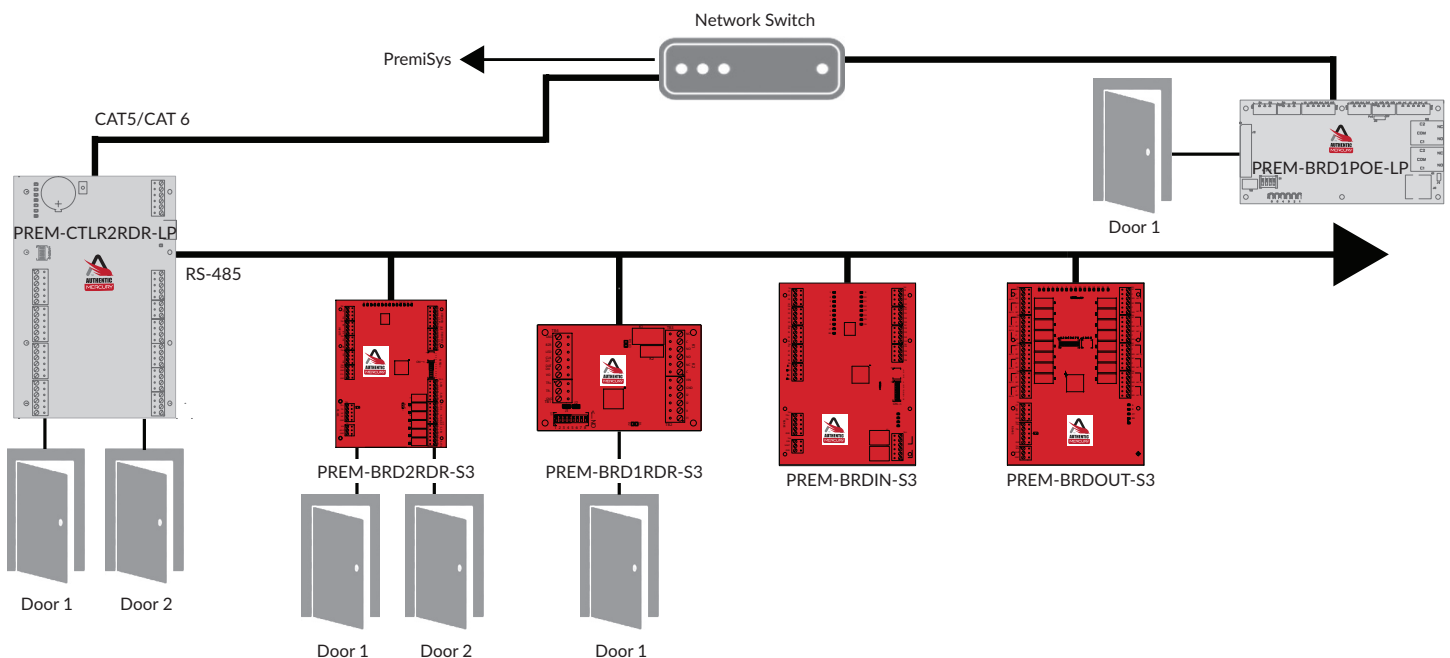
# PremiSys® Series 3 One-Reader Board

<b>Primary Power</b>	12-24 Vdc +/- 10%, 150mA maximum
<b>Host Communication</b>	RS-485, 2-wire, 4,000' (twisted pair with shield, Belden 9841)
<b>Reader Port</b>	1 Reader Port
<b>Reader Power</b>	Input voltage pass-through
<b>LED</b>	One-wire bi-color LED or two-wire LED
<b>Buzzer</b>	Only with 'one-wire' LED
<b>Inputs</b>	2 General Purpose: Programmable circuit type 1 Dedicated: Tamper
<b>Output Relays</b>	Relay 1: Normally open contact (NO): 5A @ 30 Vdc resistive Normally closed contact (NC): 3A @ 30 Vdc resistive Relay 2: 2A @ 30 Vdc resistive
<b>Dimensions</b>	2.75" L x 4.25" W x 1.0" H, (70mm L x 108mm W x 25.4mm H)
<b>Temperature</b>	-40-75 °C operational, -55-85 °C storage
<b>Humidity</b>	5 to 95% RHNC
<b>Standards</b>	UL 294 recognized, CE compliant, RoHS, FCC Part 15 Subpart B

## Application Notes

The inputs and the relays may be assigned to door-related functions or to general-purpose I/O. The inputs support normally open, normally closed, supervised, and non-supervised circuits. End-of-line (EOL) resistance values are configurable, and the relays can be configured for fail-safe or fail-secure operation.

When connected to a PremiSys intelligent controller, the Series 3 One-Reader Board can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independent of the host. The Series 3 One-Reader Board can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Up to eight facility codes may be active in each Series 3 One-Reader Board.



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