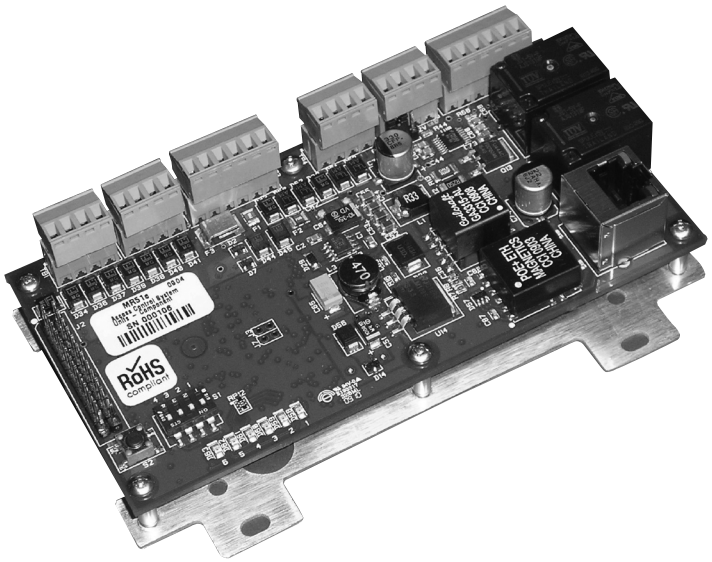
IDenticard™ SYSTEMS

The PoE One-Door Reader Board is a Power-over-Ethernet interface between any IDenticard® PremiSys™ controller and two card readers intended as alternate or paired readers for one door. The board also incorporates four input points and two output relays that can be used for door functions such as door-position monitoring, request-to-exit, a door lock and an alarm output. The PoE One-Door Reader Board supports ABA- and Wiegand-format readers in a wide variety of reader types, including smart-card and biometric readers, as well as keypads.

Features

- **Communications with controllers** are via Category 5 Ethernet cable over a network.
- **Reader port** provides the following connections: input power, card data (Clock & Data or Data 1 & Data 0), LED, buzzer and ground.
- **The PoE One-Door Reader Board** can be mounted in a three-gang junction box with an optional magnetic tamper switch.
- **The PoE One-Door Reader Board itself includes the following components:**
  - ~ An embedded Ethernet port for communication and power to the board, readers and door (depending on power needs)
  - ~ Jumper for setting either power-over-Ethernet or a separate 12-VDC power supply to the board
  - ~ Two relays configurable for normally open or normally closed operation
  - ~ Four general-purpose input points that can be supervised or not to serve as a door-input point, request-to-exit point, enclosure tamper point, etc.
  - ~ LEDs to indicate board and relay status.



PremiSys™ PoE One-Door Reader Board

PREM-BRD1POE

PremiSys™ PoE One-Door Reader Board

Specifications

Board Certifications

UL: recognized to UL 294: Access Control System Units - component

Note: For UL installations, power for PoE devices must be provided by a UL 294 listed source (12 VDC), not via PoE.

Dimensions and Weight

	Without Bracket	With Bracket
Board Width	5.5 inches (140 mm)	5.5 inches (140 mm)
Board Height	2.75 inches (70 mm)	3.63 inches (92.2 mm)
Board Depth	1.0 inch (25 mm)	1.33 inch (33.8 mm)
Board Weight	4.2 ounces (119 g) (nominal)	5.3 ounces (150.25 g) (nominal)

Environmental Specifications

Temperature	-40°F to 167°F (-40°C to 75°C) operating 67°F to 185°F (-55°C to 85°C) storage
Relative Humidity	10% to 95% RH noncondensing

Power Specifications

CAUTION! This component is intended for use only in a Class 2, low-voltage circuit!

PoE One-Door Reader Board Input Voltage	PoE Power Input 12.95W, compliant to IEEE 802.3af or 10 – 14 VDC ± 15%, 900 mA maximum
Relay Rating	5 A at 28 VDC
Relay Contact Type	Form C
Relay Configuration	Single-pole double-throw (SPDT)
Card Reader Power	12 VDC ± 10%, from PoE, regulated 150 mA maximum each reader or 12 VDC ± 10%, from 12V power to board (input voltage passed through), 150 mA maximum each reader
Reader LED Output	TTL-compatible; high > 3 V, low < 0.5 V; 5 mA source/sink maximum
Reader Data Inputs	TTL-compatible inputs

Communications Specifications

To Controller	Category 5 cable over Ethernet

Wiring Requirements

Power to PoE One-Door Reader Board	Category 5 cable to Ethernet port or Twisted pair, 18 AWG (0.823 mm^2)
Ethernet Connection to PremiSys Controller	Category 5 cable
Connection to Relay-Controlled Devices	Use wire and gauge as required by load
Connection to Input-Point Devices	One twisted pair per input, 30 ohms maximum
Connection to Readers	TTL - Six-conductor, 18 AWG. Maximum cable length: 500 feet (150 m), total copper, including drops

Access-Control Specifications

Relays	Two relays configurable for normally open or normally closed operation
Relay Contact Type	Form C
Relay Configuration	Single-pole double-throw (SPDT)
Inputs – Assignable	Four input points, end-of-line (EOL) resistors, 1K/2K ohm 1% ¼ watt standard
Door-Position Held-Open Time	1 to 32,767 two-second units of time

Indicators

Visible	Six red, single-color LEDs

40 Citation Lane • Lititz, PA 17543

TEL 800.233.0298 • 717.569.5797 • FAX 717.569.2390 • www.IDenticard.com