RS2 Technologies

a family of access management hardware solutions

MR-51E

The MR-51E is a network-capable, PoE-enabled single-or-paired-reader I/O module.

The MR-51E includes these features:

- Network connected
- PoE enabled
- Support for up to 8 different card formats/technologies
- Universal I/O device characterization
- Hardware interface and card format settings are loaded through software commands
- Inputs and relays assignable to door-related functions or general purpose I/O
- Supervised or unsupervised inputs
- Up to 8 facility codes may be active in each unit
- AES 128-bit data encryption
- UL, CE, RoHS, HSPD-12/FIPS 201

RS2 Technologies has developed an integrated family of access management hardware that can be configured to meet a wide variety of applications. The RS2 family includes a selection of field Input/Output (I/O) Card Reader Modules that includes the MR-50 single-reader model, the MR-51E network-capable, PoE (Power-over-Ethernet)-enabled single-or-paired-reader model, and the MR-52 dual-reader model. All three models pass access request and status change information to an SCP for processing. Data and activities from selected system devices pass from other devices in the network, generating actions and activities as they transpire, independent of the host computer. When not connected to an SCP, the units are capable of locally processing access requests based on facility code verification.

MR-51E (Network-Capable Single-or-Paired Reader I/O Module)

The MR-51E is a network-ready and PoE (Power-over-Ethernet)-enabled I/O module that will interface one card reader or a set of paired card readers and associated door hardware (for a single door) and one general-purpose control relay. It can be powered locally (from a 10-14 VDC power supply) or via a PoE-enabled Ethernet switch. Up to eight facility codes may be active in each MR-51E.

The MR-51E's two reader ports support separate in/out readers, including magnetic stripe, Wiegand, biometrics, and proximity card readers, as well as keypads and integrated keypad readers. Hardware interface and card format settings are loaded through software commands. Inputs support normally open, normally closed, supervised, and non-supervised circuits. The secondary relay may be assigned to general purpose I/O. The unit features AES 128-bit NIST Certified Encryption.

Application Note

The MR-51E provides an ideal integration solution when a network connection to the door is desired. Its support of paired readers enhances the ability to meet installation challenges, such as placing readers at varying heights or distances to accommodate ingress and egress of handicapped, vehicle and/or foot traffic. The readers can be logically linked, yet function independently when access identification is presented to either one. When access rights are granted, the same relay will function as programmed to unlock the opening.

CE RoHS compliant

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Technical Specifications

PoE Power Input:
12.95 W, compliant to IEEE 802.3af or 10-14 VDC

Power Output:
12 VDC @ 700 mA, including reader and AUX output

Inputs:
2 programmable, 2 reserved for door contact and REX

Output:
Form C contacts: K1, K2
5 A 28 VDC

Reader Interface:
Power:
12 VDC +/- 10% or pass-through.
(PTC limited 150 mA max.)

LED Output:
TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/

Buzzer Output:
Open collector, 5 VDC open circuit max.,
10 mA sink max.

For more information, please contact:

Data Inputs:
TTL compatible inputs or 2-wire RS-485

Communication:
10/100 Ethernet

Cable Requirements:
Power: 18 AWG, 1 twisted pair

RS-485: 24 AWG, 120 ohm, 4,000' (1,200 m), twisted pair with shield

Alarm Inputs: 1 twisted pair per input, 30 ohm max.

Reader data (TTL): 18 AWG, 6 conductors, 500' (150 m) max.

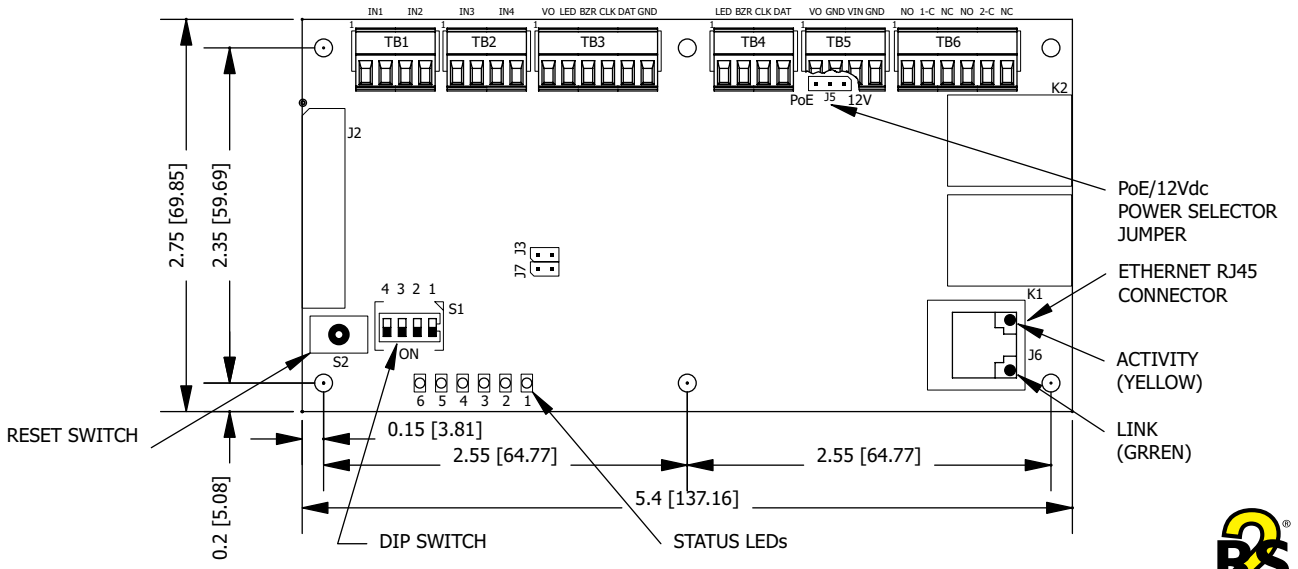
Reader data (RS-485): 24 AWG, 120 ohm, 4,000' (1,200 m), twisted pair with shield

Dimensions:
2.75" x 5.5" x 1.0"
(70 mm x 140 mm x 25 mm)

Temperature:
-40° to +75°C operational, -55° to +85°C storage

Humidity:
10% to 95% RHNC

Standards:
UL 294, CE, RoHS



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