

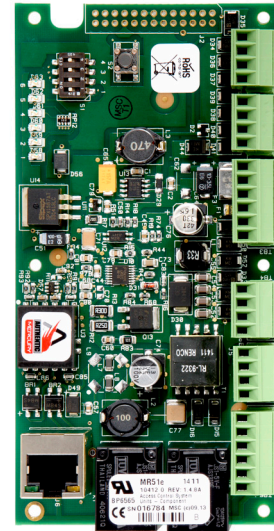
Mercury MR51e Serial I/O Controller

Mercury's MR51e Access Platform is a network connected, single-door, POE capable interface panel that provides an ideal integration solution when a network connection to the door is desired.

Two reader ports support separate in/out readers of all types and technologies, including Wiegand, clock and data, magnetic stripe, F/2F, Supervised F/2F, keypads, LCD and biometrics. Auto-addressable and directly managed by the Mercury intelligent controllers, the MR51e is capable of elaborate processes and procedures without host intervention.

Application Notes

Built on the Mercury Access Platform, the MR51e will relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to transpire independently of the host. The MR51e's 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. These readers can be logically linked together, 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.



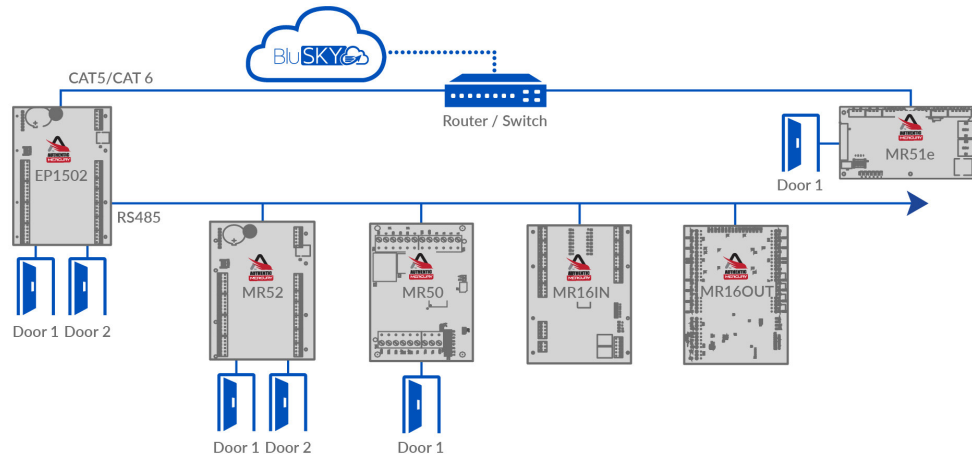
Features

- Multi-facility code support
- Multi-reader technology support
- PoE enabled
- Auto-addressable
- AES 128 bit data encryption
- UL 294 and UL 294B Recognized
- OSDP support
- Universal I/O device characterization

Benefits

- Economical
 - Network enabled and web configured, providing greater flexibility to installers
 - Highly adaptable to a variety of sensors and reader technologies
 - Supports Wiegand, clock and data, magnetic stripe, F/2F, Supervised F/2F, keypads, LCD and biometrics
-

System Diagram



Specifications

The interface is for use in low voltage, class 2 circuits only.

Power Input:

PoE Power Input 12.95W, compliant to IEEE 802.3af – OR --10 – 14VDC Power Supply

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

Output: Form-C contacts: K1, K2: 5A @ 30VDC

Inputs: 4 supervised, End of Line resistors, 1k/1k ohm, 1% 1/4W watt standard

Reader Interface

Reader Power: 12 VDC±10% (PTC limited 180mA max)

Reader LED Output:

TTL compatible, high > 3V, low < 0.5V, 5mA source/sink maximum

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

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

Communication: Ethernet, 10Base-T/100Base-TX

Cable Requirements: Power: 18AWG, 1 twisted pair (non PoE Power)

Alarm Inputs:

1 twisted pair per input, 30-ohm maximum

Reader data (TTL): 18AWG, 6 conductors, 500-foot (150 m) maximum

Reader data:

(RS-485): 24AWG, 120-ohm impedance, twisted pair with shield, 2000-foot (1,219 m) maximum

Mechanical

Dimension: 5.5" (140mm)W x 2.75" (70mm)

Weight: 4.2 oz. (120g) without bracket

Environment

Temperature: -55°C to +85°C, storage 0°C to +70°C, operating

Humidity: 10% to 95% RHNC

Standards: UL 294 and UL 294B Recognized, CE Compliant, ROHS, FCC Part 15 Class A, NIST Certified Encryption

Ordering Information

MFG Part #	BluBØX Order #	Description
MR51e	120-2400	Mercury - MR51e One Door Controller Ethernet PoE/12V

BluBØX: Security Re-Imagined

www.blub0x.com

e. info@blub0x.com

p. (844) 425-8209

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