

## Features

- Allows replacement of F/2F readers, one per interface port
- Supports up to eight (8) MR50 series controllers
- Eight 2-wire RS-485 communication ports

## Benefits

- Conquer difficult installations
- Guard against ground loop installation issues
- Flexibly expand data lines

The **M5-MUX8** multiplexer device is designed to replace a legacy Casi M Series 8RP to a single communications port that supports up to eight (8) external, two wire, RS-485 based channels.

As with all Mercury M5 controllers, this device provides all the functionality of the legacy Casi controller plus the addition of the Authentic Mercury MR50 controller capabilities. These robust features allow F/2F readers or Wiegand Interface Units (WIU) to be replaced with up to eight (8) MR50 reader interface boards. Replacement is simple and the device is ideal to meet difficult system design and installation challenges.

## Application Notes:

Mercury's M5-MUX8 multiplexer adds to a developer's ability to manage divergent system installations. Unmatched power, flexibility and economy make the Mercury multiplexer an essential, reliable and efficient element for developing today's sophisticated security systems in complex environments.

**Primary Power:** 12 VDC +/- 10%,  
(10.8 to 13.2 Vdc)  
350 mA maximum

**MR50 Power:** 12 VDC, 300 mA maximum per port

**Communication:** Asynchronous 300, 1200, 2400, 4800,  
9600, 19,200 or 38,400 bps

**Wiring:** RS-485: 24 AWG 4,000 feet max,  
twisted shielded pair  
120 ohm impedance

**MR50 Power**

**Wiring:** 20 AWG, 500 feet maximum,  
MR50 powered by M5-MUX8  
18 AWG, 3000 feet maximum, MR50  
powered locally

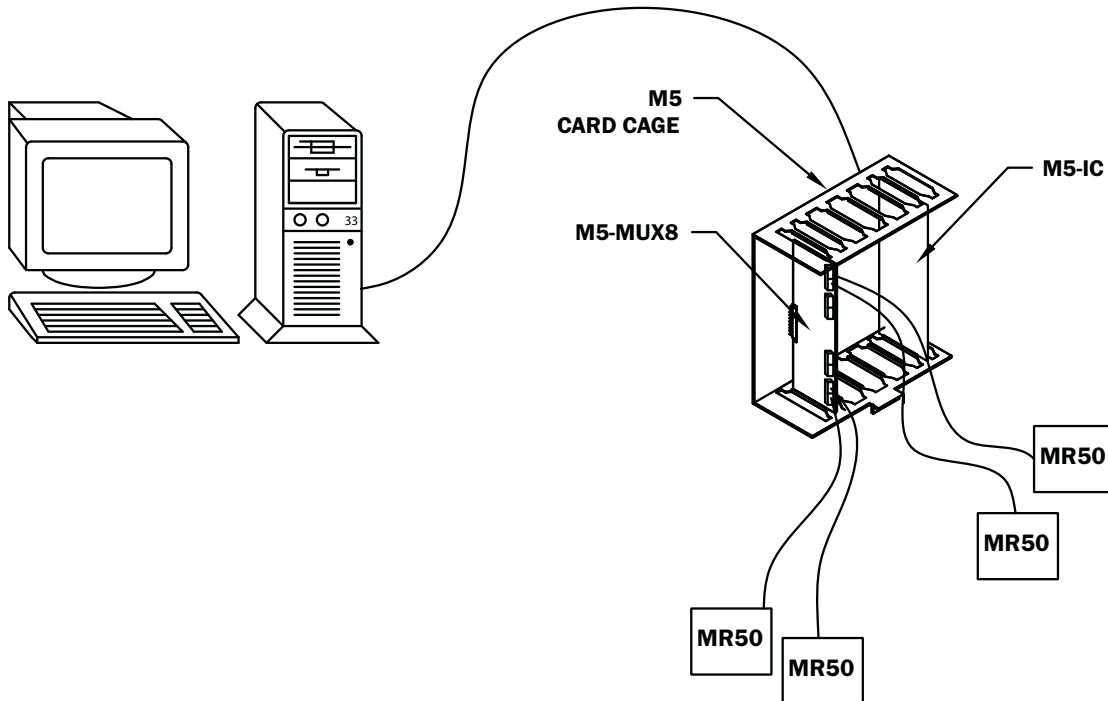
**Dimensions:** W 3.5 in (88.9mm)  
L 10.25 in (260.35 mm)  
H 0.69 in (17.5 mm)

**Temperature:** 0–50 °C operational, -55–85 °C storage

**Humidity:** 5 to 95% RHNC

**Weight:** 4 oz. nominal (w/o connectors)

**Standards:** UL 294 Recognized  
CE Compliant  
RoHS



The Authentic Mercury open platform delivers quality assurance derived from the most proven and reliable hardware in the industry. Driven by our engineering excellence and technology leadership. Authentic Mercury hardware is designed as an access control platform that easily encompasses emerging technologies, changing industry standards and evolving system environments. Make yours Authentic, Make sure its Merc.