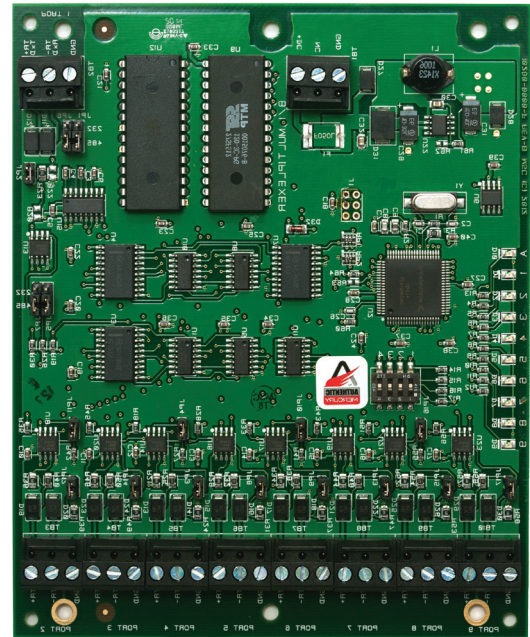## MUX8

The MUX8 is an 8-port multi-device interface panel that provides the flexibility to take RS-485 or RS-232 wiring inputs to create up to four 4-wire RS-485 communication channels or up to eight 2-wire RS-485 channels.

The MUX8 adds flexibility to expand a single data line into multiple data lines to meet difficult system design and installation challenges. Common uses include star topology, wiring schemes, home run wiring, or when wiring distances exceed the 4000 ft. limit of the RS-485 standard.

It utilizes bus-arbitration logic on a first-come, first-served basis and can detect and deactivate a broken channel to protect the integrity of the communications bus.

Application Notes:

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

FEATURES

- Per port voltage isolation
- Universal system compatibilities across intelligent controller families
- RS-232 or RS-485 inputs accepted
- Supports up to four, 4-wire RS-485 channels or up to eight, 2-wire RS-485 channels

BENEFITS

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

MUX8

Specifications

Primary Power
• 12 to 24 VDC ± 15%, 350mA

Interface Ports
• Port 1: RS-232/RS-485, selectable
• Port 3,5,7,9: RS-485, Transmit/Receive
• Port 2,4,6,8: RS-485, Transmit/Receive, or Receive Only

Cable Requirements
• Power: 1 pair, 18 AWG
• Requirements: RS-485: 24AWG, 4,000ft (1,200m) max., twisted pair(s) with shield.
• RS-232: 24AWG, 50ft (15m) max.

Humidity
• 5% to 95% RHNC

Temperature
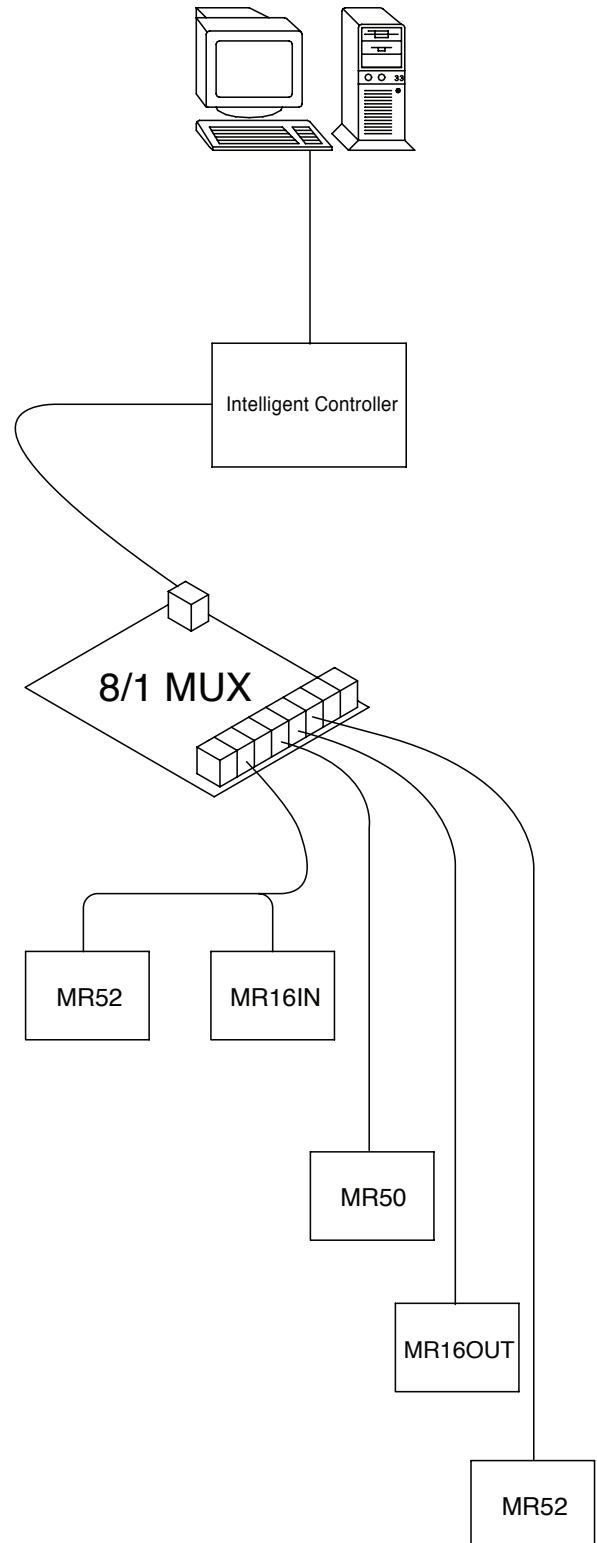• -55º C to 85º C, storage
• 0º C to 70º C, operating

Dimensions
• 6" W x 5" L x 1" H

Weight
• 5.4 oz. nomial

Certifications
• UL294
• CE
• RoHS

Intelligent Controller

8/1 MUX

MR52

MR16IN

MR50

MR16OUT

MR52