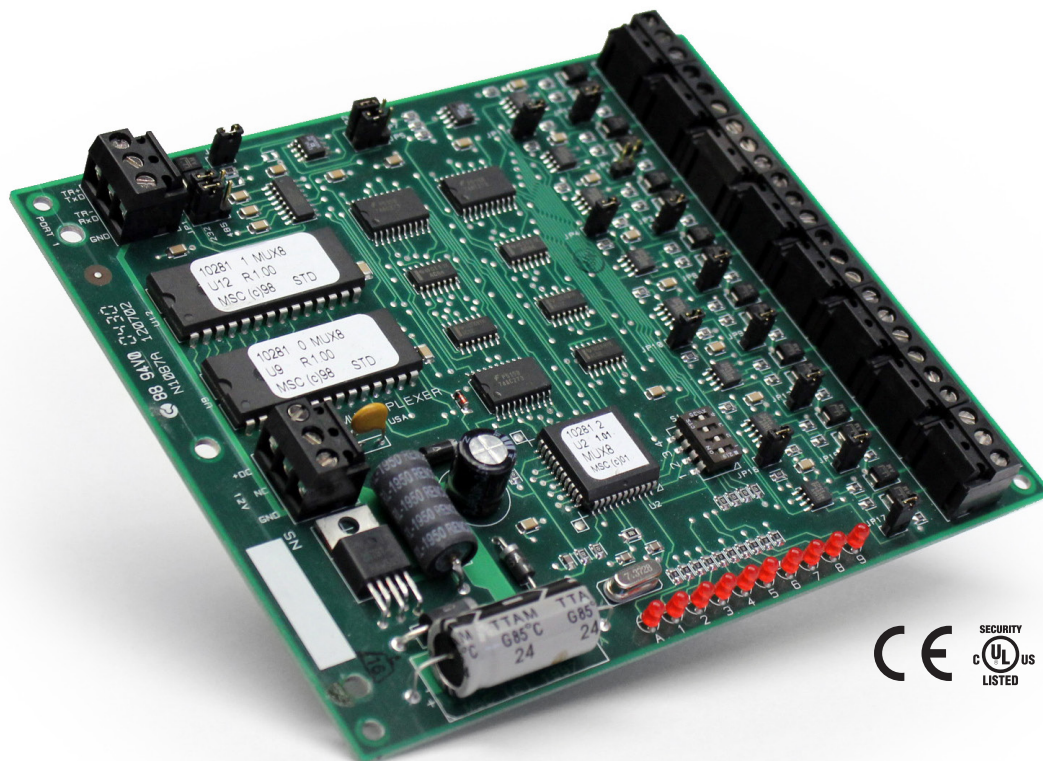


MUX-8



Run your communications to a central location

The MUX8 data multiplexer offers the flexibility of expanding a single data line into multiple data lines making it convenient to implement a star wiring topology. Retrofit installations and new building cabling where all communication lines are run to a central location would both benefit from the use of this device. The MUX8 multiplexes a single RS-232 or RS-485 data source into eight 2-wire RS-485 channels. The MUX8 uses bus arbitration logic to deactivate a broken communication link to protect the integrity of the data bus. Restored channels are automatically detected and reactivated. The data rate is field selectable from 300 to 38,400 bps. Ports 2, 4, 6 and 8 may be individually configured as receive-only channels. By pairing a receive-only channel with another channel, a 4-wire RS-485 channel may be formed. Baud rate dependent turn around delay is set by DIP switches. On-board diagnostic LEDs indicate the state of the upstream and downstream channels.

Features

- One to eight port data multiplexer
- Flexible communication rates
- Configurable to 2-wire or 4-wire RS-485
- Automatic detection and deactivation of broken channels
- Simplifies star wiring topology

MUX-8

IP Specifications

Power

- 12 VDC ± 15%, 250 mA

Indication

- Status LEDs for ports 1–9

Termination

- Removable screw terminal blocks

Dimension

- 6.0" W x 5.0" H x 1.0" D (15.2 x 12.7 x 2.5 cm)

Weight (PCB)

- 4 oz (120 g) nominal

Humidity

- 0 - 95% RHNC

Operating Temperature

- 0 to 70°C, operating
- -55 to 85°C, storage

Wire Requirements

- Power: 1 twisted pair, 18 AWG
- RS-485: 1 twisted pair, 24 AWG, 4,000', shielded (1200 m) max.
- RS-232: 24 AWG, 50 ft (15m) max.

Interface Inputs

- Port 1: RS-232 or RS-485, field selectable 300 to 38,400 bps
- Ports 3,5,7,9: RS-485 transmit and receive 300 to 38,400 bps
- Ports 2,4,6,8: RS-485 transmit and receive or receive only 300 to 38,400 bps

Certifications

- UL294, UL1076
- CE
- RoHS
- FCC Part 15 Class A

