



## RS485 Data Bus Accessories

State-of-the-art devices

### Overview

State-of-the-art data bus devices complete the Alliance System, connecting panels and accessories together.

### AL-1740 Isolator Repeater

The Alliance System AL-1740 electrically isolates the RS485 data bus where voltage differentials may exist and extends the bus maximum length from 5,000 feet up to 20,000 feet (four units times 5,000 feet). The AL-1740 also allows retrofit of existing installations with Alliance System control panels and accessories.

### AL-1741 RS485/RS232 Interface

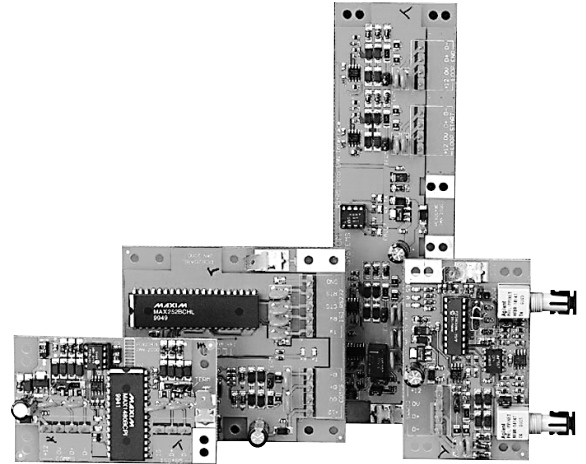
The AL-1741 converts the RS485 data bus into a standard RS232 bus and enables extending the Alliance System data bus through a leased line and two modems. When networking several control panels together on an RS485 LAN, an AL-1741 interface is used with each AL-1801 computer interface to convert RS232 to RS485.

### AL-1742 Closed-loop Module (Class A Loop)

The closed-loop module allows the RS485 data bus to start from one point and end at the same point. If a break occurs in the loop at any point, communication continues in the opposite direction to ensure a continuous operation. Breaks in the loop also trigger a fault relay, and the Alliance System is able to determine the location of the break and generate an alarm.

### AL-1743 Fiber Optic Interface

The AL-1743 converts the Alliance System bus to fiber optics. It allows either multi-dropped connection when using a single optical fiber or point-to-point connection when using two optical fibers.



AL-1740, AL-1741, AL-1742, AL-1743

### Standard Features

- RS485 Isolator/Repeater
- RS485/RS232 Interface
- RS485 Closed-Loop Module (Class A Loop)
- RS485/Fiber Optic Interface

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## Specifications

### AL-1740

#### Power Supply

- Supply voltage: 9 to 14 VDC
- Operating current: 90 mA
- Isolation voltage: 1,500 Volts

#### Physical and Environmental

- Maximum distance from panel: 5,000'
- Dimensions: 3.5" x 3.1"
- Operating temperature: 32° F to 122° F

### AL-1741

#### Power Supply

- Supply voltage: 9 to 14 VDC
- Operating current: 100 mA

#### Physical and Environmental

- Maximum distance from panel: 5,000'
- Dimensions: 3.5" x 3.1"
- Operating temperature: 32° F to 122° F

### AL-1742

#### Power Supply

- Supply voltage: 9 to 14 VDC
- Operating current: 80 mA

#### Physical and Environmental

- Maximum distance from panel: 5,000'
- Dimensions: 6.9" x 2"
- Operating temperature: 32° F to 122° F

### AL-1743

#### Power Supply

- Supply voltage: 9 to 14 VDC
- Operating current: 60 mA

#### Physical and Environmental

- Maximum distance from panel: 5,000'
- Dimensions: 3.5" x 3.1"
- Operating temperature: 32° F to 122° F

## Ordering Information

| Part Number | Main Product Offering                      |
|-------------|--|
| AL-1740     | Data bus isolator/repeater                 |
| AL-1741     | Data bus to RS232/485 module               |
| AL-1742     | Data bus closed loop module (Class A loop) |
| AL-1743     | Data bus to fiber optic module             |



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