

JetCon 2101ir Industrial RS-422/485 Isolated Rail Repeater



- Extends RS-422/485 network coverage
- Automatic internal RS-422/485 data control
- 3000 VDC isolation protection
- Transient suppression on RS-422/485 signal lines
- Speed up to 115.2 Kbps



Overview

The standard RS-232 protocol has been widely used in most of industrial computer systems for serial port communication. However, it has its limitations in transmission speed, range, and networking capabilities. The RS-422 and RS-485 standard protocols, on the other hand, overcome the limitations mentioned above by utilizing differential voltage lines for data and control signals.

The JetCon 2101ir Repeater enables an existing RS-422/485 network to cover a longer range. It extends the communication distance by 1200 meters and increases the maximum connected nodes to 32. JetCon 2101ir is also equipped with high voltage isolation to protect connected RS-422/485 networks.

Specifications

Interface

Input: RS-422/485

Output: RS-422/485

Isolation Protection: 3000V

RS-422 Signals: Tx+, Tx-, Rx+, Rx-

RS-485 Signals: Data+, Data-

Communication Distance: Up to 4000 feet (1200m)

Reverse Polarity Protection: Present

Performance

Speed: 300 bps to 115.2 Kbps

Power Requirements

Power Input: 10 to 30 VDC

Power Consumption: 2.2W (max.)

Mechanical

Dimensions: 70 mm (W) x 10 mm (H) x 20 mm (D)

Environmental

Operating Temperature: -25 to 75°C (-13 to 167°F)

Operating Humidity: 5% to 90% (Non-condensing)

Storage Temperature: -40 to 80°C (-40 to 176°F)

Regulatory Approvals

EMI: FCC, CE

Ordering Information

JetCon 2101ir Industrial RS-422/485 Isolated Rail Repeater

Includes:

- RS-422/485 Repeater
- Quick Installation Guide
- DIN Rail & Wall mounting kits