

JetCon 2101/2101i Industrial RS-232 to RS-422/485 Rail Converter

*Auto
pro*



- Automatic RS-232 to RS-422/485 converter
- 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 different voltage lines for data and control signals.

AutoPro

JetCon 2101/2101i has the built-in "AutoPro" function, which can adjust JetCon's baud rate and data format for different devices in a RS-485 network. Most RS-232 to RS-485 converters in the market use DIP switch to select baud

rate and data format, but "AutoPro" allows JetCon to be auto-configured to the same baud rate and data format in the entire RS-485 network.

Specifications

Interface

Input: RS-232

Output: RS-422/485 (jumper selectable)

Max. multidrop supported: 256 modules (without repeaters)

Isolation Protection:

JetCon 2101-3000V at RS-232 end

JetCon 2101i-3000V at RS-232/RS-422/485 end

RS-232 Signals: Tx, Rx, GND (Female DB9 connector)

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

RS-485 Signals: Data+, Data-

Communication Distance:

2.1 km/9600 bps, 2.7 km/4800 bps, 3.6 km/2400 bps

Reverse Polarity Protection: Present

Performance

Speed:

"AutoPro" auto-switches baud rates from 300 to 115200 bps

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°C to 75°C (-13°F to 167°F)

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

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

Regulatory Approvals

EMI: FCC, CE

Ordering Information

JetCon 2101 Industrial RS-232 to RS-422/485 Rail Converter

Includes:

- RS-232 to RS-422/485 Converter
- Quick Installation Guide
- DIN-Rail & Wall mounting kits

JetCon 2101i Industrial RS-232 to RS-422/485 Isolated Rail Converter

Includes:

- RS-232 to RS-422/485 Converter
- Quick Installation Guide
- DIN-Rail & Wall mounting kits