

## ■ JetCon 2201-w / 2201i-w / 2201i-wTB

### Industrial RS-232/422/485 Converter



CE FC  RoHS

921.6Kbps

3KV  
Isolation

-40~70°C

- Automatic RS-232 to RS-422/485 converter
- Auto baud rate and direction control
- High speed up to 921.6 Kbps
- RS-422/485 3000VDC isolation protection (JetCon 2201i-w)
- Supports RX bias and terminal resistor
- Easy configuration by DIP switch without resetting power
- Din-Rail mount and wall mount robust aluminum case
- Terminal block 5-pin at RS-232 (JetCon 2201i-wTB)
- -40~70°C operating temperature for hazardous environment applications

### 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 terms of transmission speed, range and networking capabilities. Furthermore, the RS-422 and RS-485 standard has overcome the limitations mentioned above by utilizing

different voltage lines for data and control signals. Hence, the RS-232 to RS-422/485 converter becomes very popular to be deployed in the industrial communication network for longer distance and higher reliability, such as JetCon 2201-w series.

### High Speed and Auto Baud control

The JetCon 2201 series features embedded high performance ASIC to provide graceful signal conversion and speed Control.

The data rate supports up to 921.6Kbps, satisfying the need of most automatic control system.

### User Friendly Design Line Terminator/RX Bias Control

In a long distance transmission, the RS-422/485 differential signal is easily interfered by noises which result in the communication interruption; JetCon 2201

provides 120ohm line terminator and receiver biasing control functions to ensure the quality of transmission by using the DIP switch to activate those features.



## Software Specifications

### Technology

#### Standard:

EIA/TIA-232 RS-232 (ITU-T v.28)  
 EIA/TIA-422 RS-422 (ITU-T v.11)  
 EIA/TIA-485 RS-485 (ISO/IEC8284)

### Interface

**Forwarding Rate:** Auto baud rate 300 to 921.6Kbps

#### Port:

RS-232 x1  
 RS-422 x1  
 RS-485 2/4 wire x1

#### Connector:

RS-232: DB-9 Female  
 RS-232: Terminal block (JetCon 2201i-wTB)  
 RS-422/485: Removable terminal block

#### Link Distance:

RS-232: 50 feet  
 RS-422: 4000 feet  
 RS-485: 4000 feet

#### Serial Signals:

RS-422: TxD+, TxD-, RxD+, RxD-  
 RS-485 4 wires: TxD+, TxD-, RxD+, RxD-  
 RS-485 2 wires: Data+, Data-  
 Signal Ground

#### Configuration DIP Switch:

DIP-switch 1,2: RS-422/485 wiring mode selection  
 DIP-switch 3,4: RS-422/485 line terminator selection  
 DIP-switch 5,6: RS-422/485 biasing resistor selection  
 DIP-switch has plate (JetCon 2201i-wTB)

#### Diagnostic LED:

System power (Pwr): Green  
 Receive Data (Rx): Yellow blinking  
 Transmit Data (Tx): Green blinking

### Power Requirements

#### System Power:

DC 12~48V input with polarity reverse correction.

**Power Consumption:** 1 Watt (max.)

### Mechanical

**Installation:** Wall mount or DIN Rail mount

**Case:** Aluminum metal case

**Dimensions:** 24.7mm(H) x 74mm (W) x99 mm (D)

#### Weight:

0.24kg with package  
 0.15kg without package

### Environmental

**Operating Temperature:** -40 ~70°C

**Operating Humidity:** 0% ~ 90% (non-condensing)

**Storage Temperature:** -40 ~ 80°C

**Storage Humidity:** 0%~ 95% (non-condensing)

### Regulatory Approvals

#### EMI:

FCC class B, CE/EN55022 class B  
 CE/EN61000-3-2:2001 Harmonic test  
 CE/EN61000-3-3: 1995 Flicker test

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**MTBF:** 5366,967 Hours ,MIL-HDBK-217F

**Warranty:** 5 Years

## Ordering Information

**JetCon 2201-w Industrial RS232 to RS422/485 Rail Converter, -40~70°C operating Temp.**

Includes:

- JetCon 2201-w
- DIN rail kit
- Quick Installation Guide

**JetCon 2201i-w Industrial RS232 to RS422/485 Rail Converter, 3KV isolation, -40~70°C operating Temp.**

Includes:

- JetCon 2201i-w
- DIN rail kit
- Quick Installation Guide

**JetCon 2201i-wTB Industrial RS232 to RS422/485 Rail Converter, 3KV isolation, -40~70°C operating Temp. with terminal block 5-pin at RS-232**

Includes:

- JetCon 2201i-wTB
- DIN rail kit
- Quick Installation Guide