

JetCon 2201-w/2101-iw Overview



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

- Automatic RS-232 to RS-422/485 converter
 - Auto Baud rate and direction control
 - High Speed 921.6Kbps
 - 3000V RS-485/422 isolation protection
 - RX bias and terminal resistor selection
 - Easy Configure without power resetting
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- -40~70C wide operating temperature (JetCon 2201-iw)

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 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 transmits by using the DIP switch to activate those features.

Hazardous Environment application

In the factory floor, there are too many interferences coming from field site equipments, such as robot, Variable- frequency motor and high-power magnetic -contactor. Those devices may produce huge electric field, magnetic field or surge and coupling into the communication lines near the devices and make all of devices work abnormally. Therefore, Electrical Magnetic Susceptibility (EMS) is important for the industrial communication. The JetCon 2201 series provides great EMS ability and complies with EN 61000-6-2 Heavy Industrial level EMS. The differential serial signal interface also adopts 3000V isolation protection to prevent inrush surge or lighting noise (JetCon 2201-iw).

Item \ Std.	Commercial Grade	Heavy Ind. Grade (JetCon 2201)*
ESD	Contact 4KV/Air 8KV	Contact 8KV/Air 15KV - Over Level
RS	3V/m	10V/m
EFT	0.5Kv ,Power, I/O	2KV Power, 1KV I/O
Surge	1KV	2KV
CS	3V	10V

Note: * Heavy Industrial grade.

System Dimensions (Unit = mm) 74mm (W) x 24.7mm(H) x 99mm (D)

