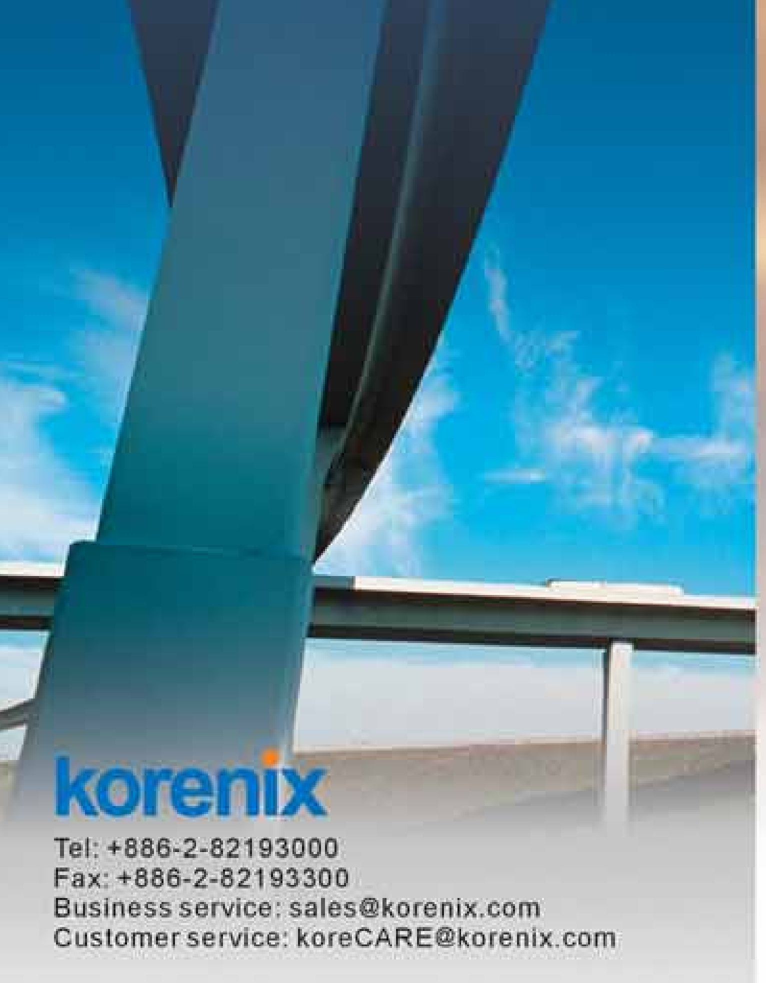


korenix
Tel: +886-2-82193000
Fax: +886-2-82193300
Business service: sales@korenix.com
Customer service: koreCARE@korenix.com

2-2. Connecting RS-232 and RS-422 devices to the JetCon:

Step 1: Connect the RS-232 device to the JetCon 2101/2101i's DB9 female connector.

Step 2: Connect the RS-422 device to the JetCon 2101/2101i's Tx+, Tx-, Rx+, and Rx- terminals of the terminal block connector.

Step 3: Connect the DC power line to the terminal block's (R)+Vs and (B)GND terminals.

The Power/Link LED shows steady red color when the power is on and data is being transmitted.

To configure the JetCon to RS-232 to RS-422 mode

Step1: Detach the terminal block from the JetCon.

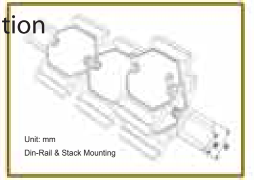
Step2: Loosen the two screws located on the back.

Step3: Remove the case.

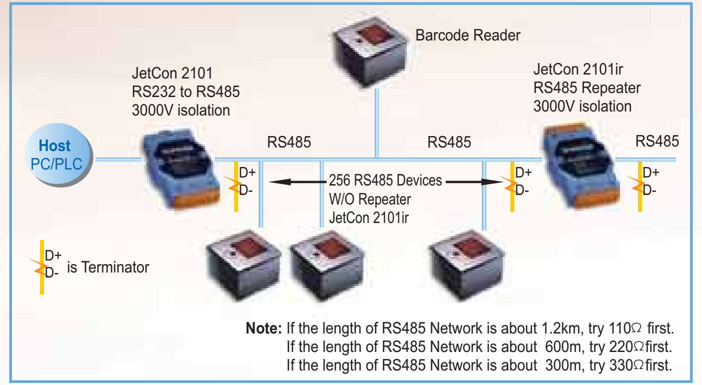
Step4: Set the jumper JP1 on the PCB board to pin 1 and pin 2.

2-3. DIN-Rail and Wall Mounting Installation

Users can choose the DIN-Rail or the wall mounting kit that comes with JetCon according to onsite environments.

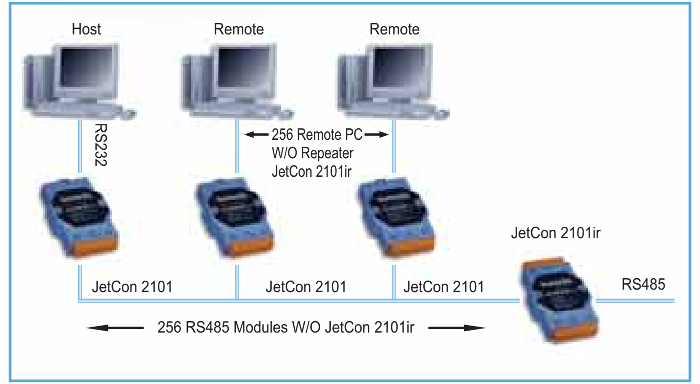


2-4. RS-485 Network Connection

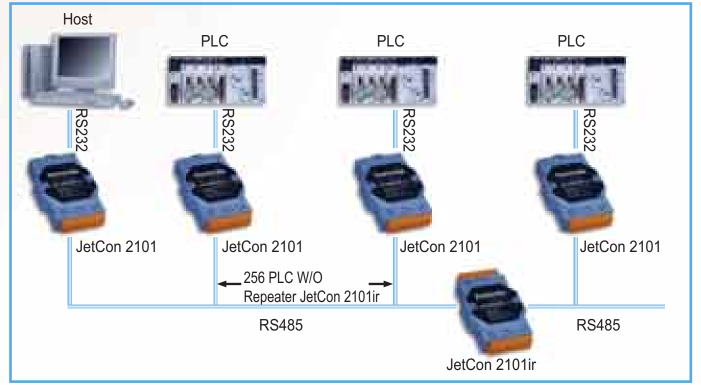


Note: If the length of RS485 Network is about 1.2km, try 110Ω first.
If the length of RS485 Network is about 600m, try 220Ω first.
If the length of RS485 Network is about 300m, try 330Ω first.

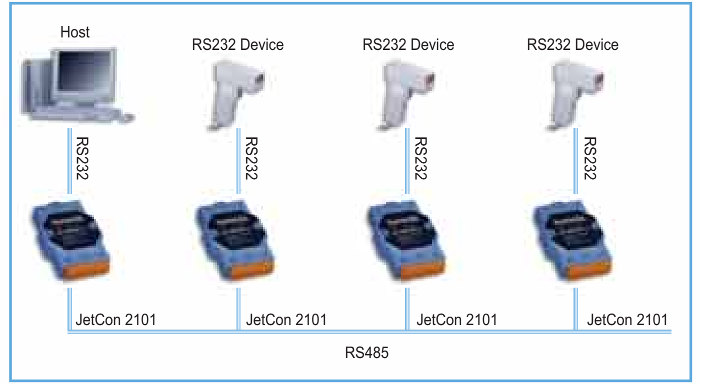
2-5. PC Network Connection



2-6. PLC Network Connection



2-7. RS-232 Device Network Connection



3. Safety Approvals

JetCon Series products has passed FCC and CE certifications.

4. Words of Product Manager

"AutoPro" is the primary design concept of JetCon. JetCon has the built-in "AutoPro" function, which is used to adjust JetCon's baud rate and data format for different devices in a RS-232 to RS-485 network. In other words, with AutoPro, JetCon 2101 can automatically detect different baud rates and data formats of devices connected in a RS-485 network and adjust accordingly.

Michael Teng
Product VP Michael Teng

5. Korenix Customer Service

KoreCARE is Korenix's global service center, where our professional staffs are ready to solve your problems at any time and in real-time.Korenix global service center's e-mail is **KoreCARE@korenix.com**

5-Years WARRANTY POLICY-- Korenix warranties hardware Product period is five years. Under the warranty period, upon return of the hardware Product Korenix will, at its option, repair or replace Product at no additional charge, freight prepaid, except as set forth below. Repair parts and replacement Product will be furnished on an exchange basis and will be either reconditioned or new.

JETCON
Industrial Rail Converter

Quick Installation Guide

V 1.1

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Quick Installation Guide

JetCon Series Industrial Rail-Converter

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Introduction

JetCon 2101 : Industrial RS-232 to RS-422/485 Rail-Converter
JetCon 2101i : Industrial RS-232 to RS-422/485 isolated Rail-Converter
JetCon 2101ir : Industrial RS-422/485 isolated Rail-Repeater

JetCon 2101/2101i has a built-in function, AutoPro, which can adjust JetCon's baud rate and data format for different devices in a RS-485 network.
JetCon 2101ir repeater boosts RS-422/485 signals to extend the communication distance up to 4000 ft (1.2km), and increases the maximum number of connected nodes up to 128.

Auto internal bus control enables JetCon 2101ir to automatically repeat RS-422/485 signals to connected RS-422 and RS-485 network respectively in various baud rates without any external switch setting.

Built-in optical isolations of JetCon 2101i/2101ir provide 3KV isolation to protect the host computer from ground loops and destructive voltage spikes on the RS-422/485 data lines.

1-1 Product Features

JetCon 2101/2101i

- Automatic RS-232 to RS-422/485 converter
- AutoPro for auto switching baud rates from 300 to 115.2 Kbps in a RS-485 network
- 3KV isolation protection (2101i)
- Supports multiple data formats, and baud rates
- Maximum 256 modules in one RS-485 network without a repeater
- Mounts easily on DIN-rail or panel

JetCon 2101ir

- Automatic internal RS-422/485 bus supervision
- 3K VDC isolation protection
- Transient suppression on RS-485 data lines
- Supports baud rate up to 115.2 Kbps
- Extends communication distance up to 4000 feet (1.2km)
- Reserved space for termination resistors (R8,R9)
- Mounts easily on DIN-rail or panel

1-2 Package Checklist

The JetCon Series products are shipped with the following items:

1. JetCon Industrial Media Converter
2. Quick Installation Guide
3. DIN Rail & Wall mounting kits

1-3 Product Introduction

When you open your JetCon Series package box, you will be able to see a JetCon Industrial Media Converter with an upper connector, a bottom connector, 2 fixed screws, power/link indicators, and DIN-Rail and Wall-mounting kits.

1. Front panel

2. Upper connector

DB9 female connector for JetCon 2101/2101i

Terminal block connector for JetCon 2101ir

3. Bottom connector (terminal block connector)

4. Fixed Screws

5. Power/Link indicator

6. DIN-Rail mounting kit

7. Wall mounting kit

Hardware Installation

2-1. Connecting RS-232 and RS-485 devices to the JetCon:

JetCon 2101/2101i

Note: JetCon 2101/2101i's default connection setting is RS-232 to RS-485. (DATA+, DATA-)

Step 1: Connect the RS-232 device to the JetCon 2101/2101i's DB9 female connector.

Step 2: Connect the RS-485 device to the JetCon 2101/2101i's DATA+ and DATA- terminals of the terminal block connector.(default)

Step 3: Connect the DC power line to the terminal block's (R)+Vs and (B)GND terminals.

Note: JetCon 2101/2101i/2101ir can tolerate power supply up to +24 VDC, which is an industrial level of unregulated power input. Operation is guaranteed when using any power supply between +10 to +30VDC.

Power ripples must be limited to 5V from peak to peak, and power supply voltages must be maintained between +10V and +30VDC under all circumstances. All power supply specifications are referenced at module connector.