

JXQ Series RS485 Hub



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Description

JXQ series RS485 hub is a RS-485 bus splitter designed to address the requirements of large RS-485 systems in complex electromagnetic environments. The product supports transmission rates up to 115.2Kbps. To ensure safe and reliable data communication, the RS-485 interface uses optical isolation technology to prevent lightning surges from introducing into the converter and equipment. The built-in optical isolator and 1500W surge protection circuit provide 2500V isolation voltage and effectively prevent lightning, ESD, and grounding interference. The power supply uses an external switching power supply for reliable operation. In the RS-485 mode of operation, the discrimination circuit automatically senses the direction of data flow and switches the enable control circuit automatically, solving the delay problem of RS-485 transceiver conversion easily. It is widely used in power collection systems and is a high-performance and cost-effective data interface conversion product.

JXQ series RS-485 HUB provides star-type RS-485 bus connection. Each port has short circuit and open circuit protection. Optical isolation of 2500V allows users to easily improve the RS-485 bus structure, divide network segments, and improve communication reliability. When lightning or equipment failure occurs, the problematic network segment will be isolated to ensure the normal operation of other network segments. This performance greatly improves the reliability of the existing RS-485 network and effectively reduces maintenance time of the network.

Application

- RS485 Bus Connections

Features

- The interface adopts optical isolation technology to prevent lightning surges from introducing into the converter and equipment.
- It automatically detects and controls the RS485 data stream, and can automatically generate the RS485 transceiver switching enable signal based on the transmitted data.
- Each port has short circuit and open circuit protection, and any interface failure will not affect the normal operation of other interfaces.
- The number of RS485 interfaces is optional for 4 or 8 ports.

Technical parameter	
Interface characteristics	The interface is compatible with EIA/TIA's RS-232C and RS-485 standards
Operating voltage	DC 12-48V with a current of 350mA
Transmission medium	twisted pair or shielded wire
Operating mode	asynchronous half-duplex
Signal display	Eleven signal indicators including power (PWR), transmit (TX), receive (RX), and fault (E1-E8) indicators
Interface protection	Using optical isolation
Transmission rate	300bps-115.2kbps
Size	145mmx90mmx40mm
Operating environment	Temperature: -40°C ~+85°C , relative humidity: 5%~95%
Installation method	Rail installation

Options

Model	Instruction	Installation	Operate power
JXQ-RS-08	Eight RS485 ports	Rail installation	12~48VDC
JXQ-RS-04	Four RS485 ports	Rail installation	12~48VDC

Dimensions

