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Isolation Four Ports RS485 HUB

Ittelecom Optical Technology Co., ltd

P/N: ITT-SR2970

Features:

- isolation 1 RS232/485 to 4 channels RS485 hub.
- effectively isolating the interference for slave port RS485 each other, slave port RS485 and main port RS485.
- RS485 main port and from slave port support 256 slave stations, super signal amplification capability.
- can implement relay, extension and isolation of RS485 network.
- wide voltage input, support guide installation.

Description:

The ITT-SR2970 is a 4 ports industrial isolation RS485 hub, can extend 4 channels RS485 sub-ports through 1 channel RS485/232 main port. It can effectively implement reply, extension and isolation of RS485 network. ITT-SR2970 can also be as an active isolation RS232 to RS485 converter. If you only need 1 channel the model is ITT-SR2970.

The main port of ITT-SR2970 provides isolation two interface RS485 and RS232 at the same time, the sub-ports extend 4 channels isolation RS485 interface.

Generally the RS485 wiring require hand-in-hand wiring style, need avoid star connection of master station as center. But sometimes need star connection, in this case using RS485 hub can effectively isolate connection interference between multi-RS485.

ITT-SR2970 is active isolation RS485 hub, the product are specially designed for industrial scene in harsh environment, is especially suitable for situations requiring high reliability and safety. The photoelectric isolation function can effectively make master and sub devices separate from each other, avoid damage from ground potential difference of master-slave devices and static, lightning, surge to devices, also can avoid damage from ground loop current caused by ground potential difference.

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ITT-SR2970 has 4 main application styles:
1) Isolation: effectively isolate master and slave ends of RS485 network; meanwhile isolate 4 slave stations.
2) Relay: can effectively extend communication distance of RS485 network.
3) Extension: can implement 1 channel RS485 extending to 4 channels RS485, multiply the numbers of RS485 devices in the network.
4) Conversion: also can realize 1 channel RS232 converting to 4 channels RS485.

Other:
1) RS485 master port and slave port has 2500V voltage isolation protection.
2) RS485 master port and slave port support 256 slave stations.
3) The back is equipped with guide installation card slot, suitable for guide installation.
4) 9~24V wide range input.
5) RS485 opposite connection indicator. The CH1~CH4 indicator is always on when line A and line B are opposite connected.

Technical Parameters:

Technical parameter	
• **Interface Standard**	➢ meet EIA/TIA RS232/RS485 standard
• **Physical Interface**	➢ RS232: DB9 (hole); RS485: Terminal
• **Serial Port Type**	➢ RS485: two-line (A, B); RS232: three line (TXD, RXD, GND)
• **Communication Rate**	➢ 0~200Kbs (self-adaptive)
• **Support Qty**	➢ each RS485 port support up to 256 node
• **Communication Distance**	➢ 1200m (9600bps); higher rate shorter distance
• **Isolation Voltage**	➢ 1200m (9600bps); higher rate shorter distance
• **Static Protection**	➢ RS485: 12KV
• **Operation Mode**	➢ half-duplex transparent transmission
• **Input Voltage**	➢ DC 9~30V
• **Work Temperature**	➢ -45℃~+85℃
• **Environment Humidity**	➢ <95%RH
• **Transmission Medium**	➢ normal parallel lines or twisted-pair
• **Size**	➢ L×W×H=12.2cm×7.2cm×3.4cm