

Model271



Overview

Model271 is a sort of more function and economy RS-232/485/422 interface optic fiber modem which operates both in ring topology, and point-to-point mode. It is the best choice to connect RTU to HOST or SCADA controller. It used optic fiber as transfer medium, increase the transfer function of system. Communication equipment abstain menace effective to lightning strike, surge, electromagnetism disturb under the bad environment.

MODEL271 have the style of Multi-mode, Single-mode, support loop connection and can used for repeater to extend distance.

Features

- Extend RS-232/485/422 transmission distance:
up to 120 km with single-mode
up to 2 km with multi-mode
- Decrease signal interference. Ring structure or point-to-point structure
- Protect against electronic degradation and chemical corrosion
- Supports a baud rate up to 500 Kbps
- Extended operating temperature from -40 to 75°C

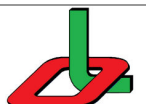
【PIN Define】

MODEL271 RS-232/485/422 interface adopt 8 bit terminal block, the power is 2 bit terminal block; optic port is SC, ST or FC optional

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DCIN 9~36 VDC input

GND GND
RS-485/422
T+/D+ RS-422 TXD+(RS-485signal+)
T-/D- RS-422 TXD-(RS-485signal -)
R+ RS-422 RXD+
R- RS-422 RXD-

GND GND
RS-232
IN RS-232 input(RX)
OUT RS-232 output (TX)
GND GND
Fiber interface
IN Fiber input
OUT Fiber output

【LED Indicator light】

MODEL271 has 3 indicator light, It is convenient for your project:
Power Red light, ON: power is ON
RxD Green light, Blinking when fiber is transmitting data
TxD Green light, Blinking when fiber is receiving data

Applications

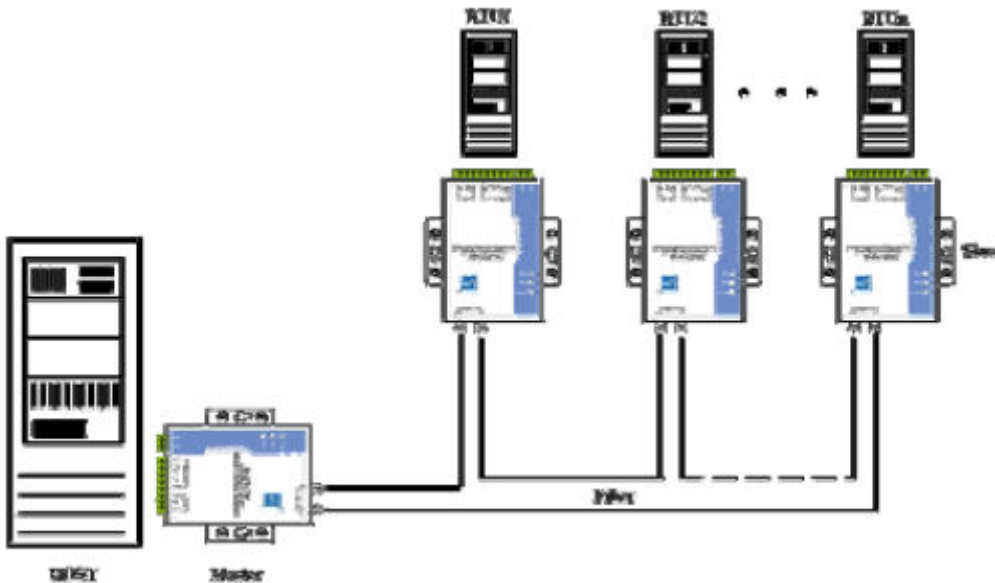
Loop road application

As users require, MODEL271 can connect multi-equipment with the same or different interface to the same loop road.

Master and Slave communication theory:

1. Master send data
 When Master send data from OUT port , because MODEL271 support loop, at the same time of slave's RTU1 received the data, the data send from RTU1's send port to the next Terminal Unit (RTU2)'S receive port. In turn, all Slave receive the data from Master, but because MODEL271 is half –duplex working mode, Master's input port do not receive data.
2. Slave send data
 When Slave send data, data come to Master pass loop from send port, Master do not send data. For example RTU2 send data, data come to Master from RTU3, RTU3 and Master receive the data, but RTU1 did not receive the data.





***Note:** When loop application (Fiber optic Ring topology), only one Master allow to Master MODEL271, all other Slaves are to Slave MODEL271.

Specification

Parameter

Standard: EIA RS-232,RS-485,RS-422

Transfer rate: 0-120Kbps, auto sense signal rate

Transmission:RS-232 port 15m

RS-485/422 port 1200m

Optic port multi-mode 2-5KM

Single-mode 20-120KM

Type: RS-232/485/422 interface adopt 8 bit terminal block, optic port SC, ST or FC

Environment

Operating temperature: -40°C to 70°C

Storage temperature: -40 to 85°C

Humidity: Relative humidity 5% to 95%

Power supply

Power input: 9V~36V DC , consumption 2W

Dimension

H×W×L: 100mm×69mm×22mm

Shell: Iron

Color: White

Weight: 230g

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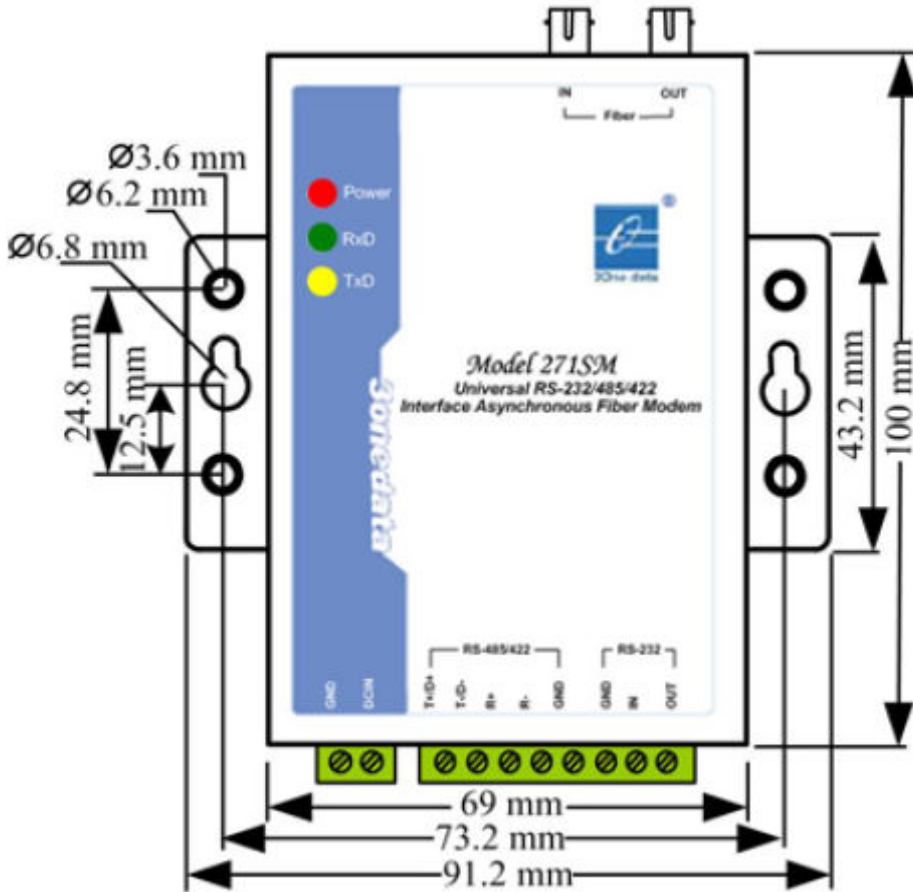
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Installation

Model271 provides DIN-rail and wall mounting two types of installation:
Installation size:



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