

# RS-232/485/422 serial optic fiber MODEM

## 1. Summarize

RS-232/RS-485/RS-422 Fiber Optic MODEM is the best choice for connecting a remote terminal unit (RTU) to a HOST or a distributed data acquisition system (SCADA) controller. The product uses optical fiber as the transmission medium to improve the system transmission performance, effectively avoiding the harsh environment of lightning, surges and electromagnetic interference and other threats to communications equipment.

## 2. Function and Characteristic

- a) Support RS-232/RS-485/RS-422 interface
- b) Asynchronous, point to point, rate up to 500Kbps
- c) Support 5V power input, consumption 2W
- d) 1500W surge protection, 15KV static protection
- e) RS-485/422 port support 32 node ( can choice customized 128 Node)
- f) Working wavelength: 1310nm(multi-mode)  
1310nm(single mode)
- g) Auto test signal rate, zero delay auto transmit.

## 3. Performance guideline

Interface: support EIA RS-232, 485, 422 standard

Rate: 0-500Kbps

Transmit distance: RS-232 port 15m,

RS-485/422 port 1200m, optical port multi-mode 2KM, single-mode40KM

Working environment: -25°C to 70°C

## 4. Appearance guideline

Interface type: 8 bit terminal block, multi-mode choice ST/

SC/FC interface, single-mode choice FC/SC/ST interface

L\*W\*H: 100mm\*69mm\*22mm

Shell: Iron

Colour: White

Weight: 230g

## 5. Pin define

Power interface

GND ——— Ground

DCIN ——— 5V input

Optical fiber interface

Rx ——— Optical fiber input

Tx ——— Optical fiber output

RS-485/422 port

T+/D+ ——— RS-422 Send +/ RS-485 +

T- /D- ——— RS-422 Send -/RS-485 -

R+ ——— RS-422 Received +

R- ——— RS-422 Received -

GND ——— Ground

RS-232 port

IN ——— RS-232 input

OUT ——— RS-232 output

GND ——— Ground

## 6. Indicator light explain

PWR: Power indication

RxD: Optical fiber interface receive indication

TxD: Optical fiber interface send indication

## 7. Application

According to the needs of users, you can complete any combination of RS-232/RS-485/RS-422 interface between the three point-to-point communication.

