

## RS485 + RS422 + RS232 To Fiber Optic Converter

### Model: HM-485-422-232

Product Name: RS485-232-422 optical fiber MODEM

Type: independent desktop, external power supply

Size: 100 mm x 89 mm x 26 mm (Lx WXH)

Weight: 230G/set

Packaging: standard paper packaging



### Product Description:

The unit is a multi-functional RS485-232-422 interface optical fiber MODEM. It is the best choice to connect the remote terminal unit (RTU) to the host computer (HOST) or the distributed data acquisition system (SCADA) controller.

The product uses optical fiber as the transmission medium, which improves the transmission performance of the system and effectively avoids the threat of lightning strikes, surges and electromagnetic interference to the communication equipment in the harsh environment.

### Product Features:

1. Zero delay automatic forwarding.
2. Asynchronous transmission, point-to-multipoint application, RS485-422-232 interface and optical fiber conversion.
3. Automatically detect serial port speed, identify and control data transmission direction
4. Maximum communication rate 500Kbps.
5. 5VDC voltage input.
6. Working wavelength: 1310/1550nm.
7. Interface provides 1500W surge protection and 15KV static protection
8. Multi-mode communication reaches 500 meters and single-mode communication reaches 20 kilometers.
9. RS485-422 supports 32-bit polling.

**Communication indicators:**

| Standard                    | Conform to EIA RS-485, RS-422  |
|-----------------------------|--|
| RS-485 signal               | T+,T-  |
| RS-422 signal               | T+,T,R+,R-,GND, cross connect  |
| RS-232 signal               | Pin2: TX. Pin 3: RX. Pin5: GND. RS-232 signal  |
| Fiber signal                | IN,OUT   |
| Work mode                   | Asynchronous work, point-to-point  |
| Direction control           | Automatic control technology of data flow direction is adopted to automatically identify and control data transmission direction |
| Baud rate                   | 0-120Kbps, automatic detection of signal rate Baud rate  |
| Fiber wavelength            | Multi-mode/Single-mode 1310/1550nm   |
| Transmission distance       | RS-485/422 port 1200meters   |
| Fiber transmission distance | Multimode up to 500meters. Single-mode up to 20Km  |
| Interface protection        | 600W surge protection, 1500V static protection   |
| Load capacity               | RS-485-422 port supports 32 nodes  |
| Wire connection way         | 5-pin terminal   |
| Fiber port optional         | Muti-mode optional SC interface, single-mode SC interface  |

**Environmental requirements:**

1. Ambient temperature: - 30 'C~+75 "C
2. Storage temperature: - 50 'C~+85 "C
3. Relative humidity: 0~95% (no cold condensation)
4. Rated power supply voltage: AC85-260V/50Hz
5. MTBF: ≥ 105 hours
6. Power consumption: 5w (Input: DC5V2000mA)

**Scope of application:**

1. Access control system
2. Alarm control system
3. POS card swiping networking system
4. Industrial data equipment control system
5. LED screen control
6. Transportation networking system

**Appearance index:**

|             |                   |
|-------------|-------------------|
| LxWxH(mm)   | 100 mmx89mmx26 mm |
| Outer shell | Fe                |
| Color       | Grey white        |
| Weight      | 230g /pcs         |