Logicbus®

MODEL277 Series

Wall Mounting or DIN-Rail Mounting

1 RS-232/485/422 Serial-to-Fiber Modem

- Support 1 RS-232, RS-485/422 or 3IN1 serial port to 1 fiber port
- Support advanced communication coding and clock recovery technology to ensure accurate transmission of distant data
- Support unique "Zero time delay and automatic forwarding" technology
- Support autotunning technology of serial baud rate
- Support 5VDC, 12-48VDC, -48VDC and 220VAC four power supply solutions

Introduction

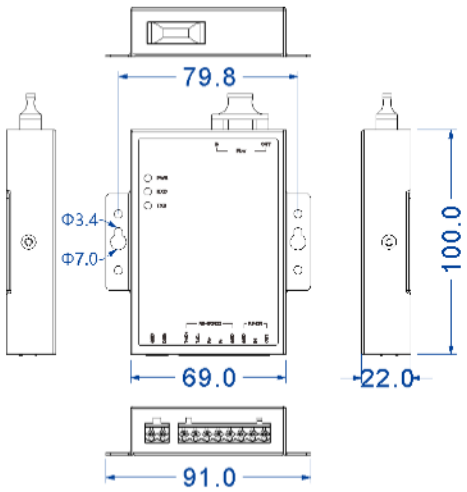
MODEL277 series are serial-to-fiber modems that convert RS-232/485/422 serial port signal to optical signal. This series include 3 types of optional products and support 1 RS-232, RS-485/422 or 3IN1 serial port to 1 fiber port. It adopts wall mounting or DIN-Rail mounting to meet the requirements of different application scenes.

This series adopt advanced communication coding and clock recovery technology to avoid data transmission error. And it adopts unique "Zero time delay and automatic forwarding" technology to enhance the anti-interference capability of interface and achieve real zero time delay. It can conduct automatic detection of baud rate, even the baud rate of the device serial signal changes; the converter can still achieve RS-232 or RS-485/422 to optical port conversion. MODEL277 series can be widely used in various industrial control, process control, traffic control, intelligent community and other scenes, especially suitable for bank, power industry, departments and systems with special requirements for electromagnetic interference.

Dimension

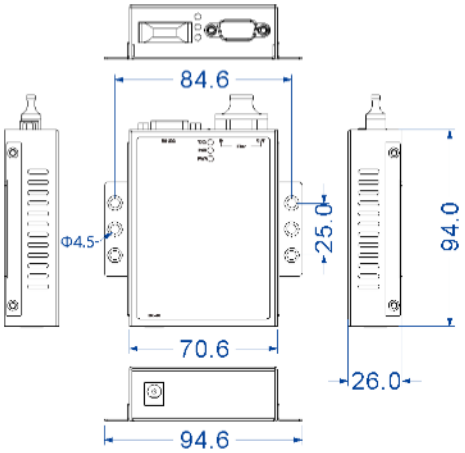
Unit: mm

- MODEL277 (12~48VDC)

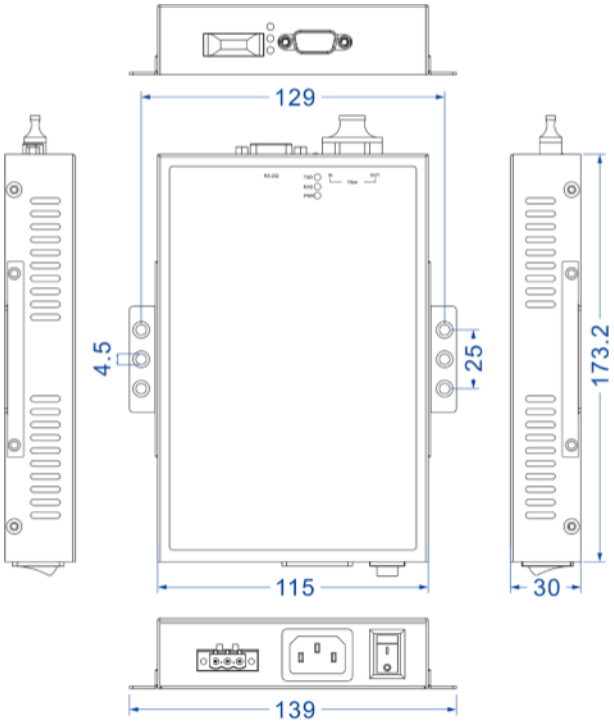


12-48VDC

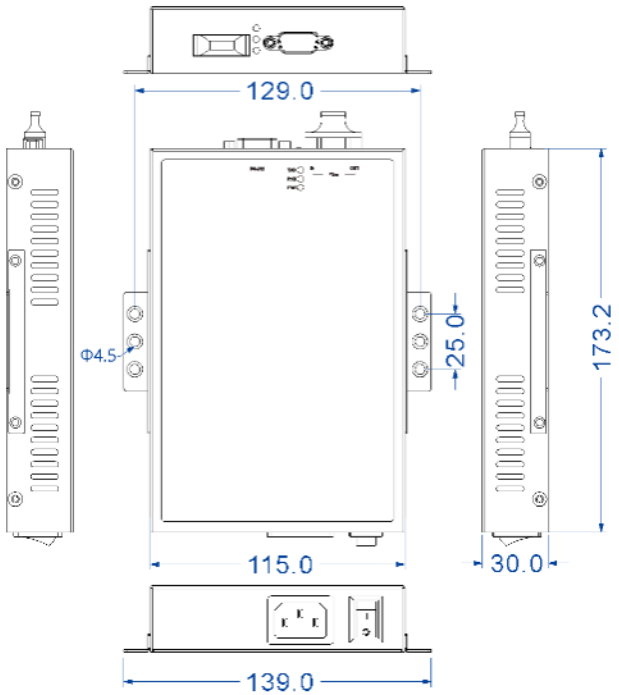
- MODEL277A (5VDC (external power supply), -48VDC and 220VAC)



5VDC

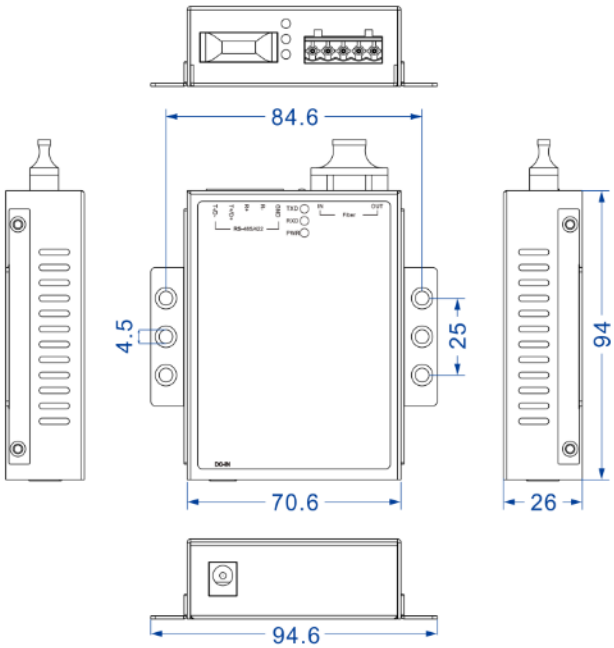


-48VDC

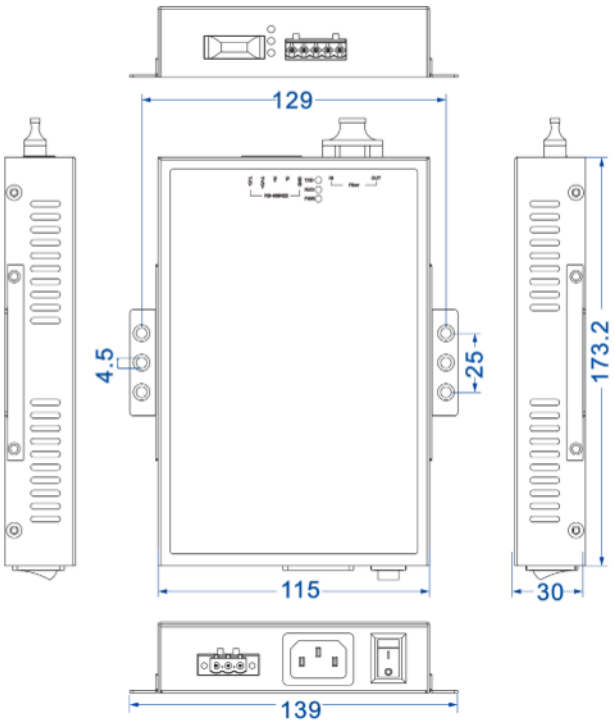


220VAC

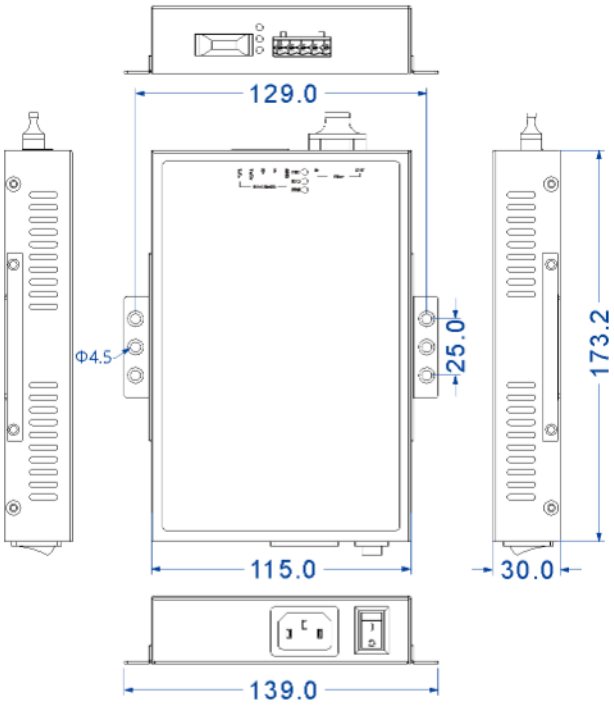
- MODEL277B (5VDC (external power supply), -48VDC and 220VAC)



5VDC



-48VDC



220VAC

Specification

Fiber Interface	Number of interfaces: 1 Interface form: optional SC/ST/FC port Transmission distance: ● Multimode: 2km ● Single mode: 20/40/60/80/100/120Km Transmission wavelength: ● Multimode: 1310nm ● Single mode: 1310nm or 1550nm
Serial port	Standards: EIA RS-232C, RS-485, RS-422 Number of interfaces: Support 1 RS-232, RS-485/422 or 3IN1 serial port RS-232 signals: OUT, IN, GND RS-485 signals: D+, D-, GND RS-422 signals: T+, T-, GND, R+, R- Baud rate: 300bps-115200bps MODEL277 interface form: RS-232/485/422 serial port, adopts 8-pin 5.08mm pitch terminal blocks MODEL277A interface form: RS-232 serial port, DB9 female MODEL277B interface form: RS-485/422 serial port, adopts 5-pin 5.08mm pitch terminal blocks Direction control: RS-485 direction adopts ADDC (Automatic Data Direction Control) technology Load capacity: RS-485/422 end supports 32 points polling environment (customizable 128 points) Transmission distance: RS-232, 15m; RS-485/422, 1200m RS-485 pull high/low resistor: 4.7kΩ
Indicator	Power supply indicator, fiber port data receiving and alarm indicator, fiber port data sending indicator
Power supply	MODEL277 ● Input power supply: 12～48VDC ● Connection mode: 2-pin 5.08mm pitch terminal blocks MODEL277A, MODEL277B three optional power supply solutions ● External power supply: 5VDC, adopts DC round head for connection, MODEL277B supports 2.0A overcurrent protection ● Built-in power supply: -48VDC, adopts 3-pin 5.08mm pitch terminal blocks;