BM-TS100C Series
RS232/485/422 Fiber Modem
RS-232/485/422 to Fiber

RoHS Compliant

CE   FC

>>Description

BM-TS100C 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. BM-TS100C 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.

>>Main Features

Ÿ Extend RS-232/485/422 transmission up to 120Km with single-mode

Ÿ Transmit asynchronously, point to point, speed reach 500Kbps

Ÿ Examine signal speed automatically, zero delay time

Ÿ Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)

Ÿ Support RS-232/485/422 interface type, but only one RS-232/ RS-485/ RS-422 port can be connected at a given time

Ÿ 9~36VDC power supply input(2 bit terminal block)

>>Specifications

Interface
Ÿ 1 x RS-232/485/422
Ÿ 1 x Optical port (1x9) 100Base-Fx

Optical Port
Ÿ Available for 1310nm and 1550nm Single mode, and 1310nm Multi mode
Ÿ Transfer Distance: up to 120km
Ÿ Connectors: SC, ST, or FC optional
Ÿ Fiber core: 8.3µm, 8.7µm, 9µm and 10µm on single-mode fiber; 50, 62.5 and 100µm on multi-mode fiber

RS-232/485/422
Ÿ Standard: EIA RS-232C, RS-485, RS422 standard
Ÿ RS-232 signal: OUT(TX), IN(RX), GND
Ÿ RS-422 signal: T+, T-, R+, R-, GND
Ÿ RS-485 signal: D+, D-, GND
Ÿ Working mode: Asynchronism, point to point or multi point, 2 wire half-duplex,4 wire full duplex
Ÿ Baud rate:0~115.2Kbps, auto test serial signal rate detect signal speed automatically, zero delay time

Ÿ Transfer distance: RS-485/422 side:1.2Km(9600bps), RS-232 side: no less than 5m
Ÿ Max number of drops: 128 nodes(RS-485/422)
Ÿ Port protect: 600W surge protection, 15KV ESD protection

Power Requirement
Ÿ Power input: 9~36VDC power input(2 bit terminal block)
Ÿ Consumption: 120mA

Physical Characteristics
Ÿ Housing: Metal enclosure
Ÿ Dimensions: 100 x 69 x 22mm
Ÿ Weight: 230g

Environmental Limits
Ÿ Operating Temperature: -10°C to 60°C
Ÿ Storage Temperature: -40°C to 85°C
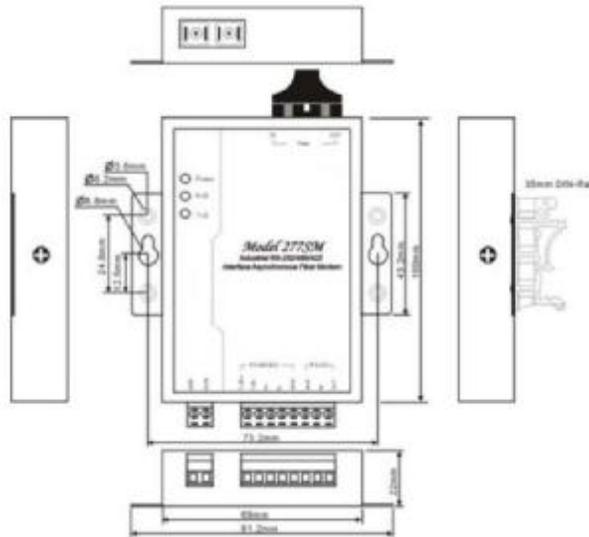Ÿ Humidity: 5% to 95% RH (non-condensing)

Agency Approvals
Ÿ FCC Part 15 of Class A & CE approved

Warranty
Ÿ 3 years

>> Mechanical Drawing

>>Ordering Information

Model NO.	Description
BSD-TS100C	Multi-Mode, 2Km, 9V-36VDC, SC, FC or ST, optional
BM-TS100C-20	Single-Mode, 20Km, 9V-36VDC, SC, FC or ST, optional