

KODT2200/KODT2200B



Panel Mounting/Rack Mounting Serial to Fiber Optical Data Terminal

- Flexible networking: ring, chain and tangent ring
- Dual fiber redundant technology (<20ms)
- Three types of serial ports: RS232/RS422/RS485
- Serial ports have 15KV ESD protection circuit
- Alarm output for the failure of fiber ports
- Dual master stations backup function
- 8 full duplex channels, 8 × 8 data cross-connection
- Level conversion function of data interface
- Abundant power supply options
- CE, FCC certificates



Overview

KODT2200 and KODT2200B are Serial to Fiber Optical Data Terminals. KODT2200 supports 2 fiber ports, 4 RS232 and 2 RS422/RS485 serial ports, supports Panel mounting. KODT2200B supports 2 or 4 fiber ports, 8 RS232 and 4 RS422/RS485 serial ports, supports 19 inch 1U Rack mounting. The KODT series provide 12VDC, 24VDC, 48VDC, 110VDC or 85-264VAC/120-300VDC power supply. It supports IP30 protection class. Provide two remote communication data output ports for fiber port alarms. Flexible networking, Ring, chain, or tangent ring network. Fast (recovery time<20ms) dual-fiber ring redundancy technology, enhances communication reliability. Dual master for backup, When the master device is faulty, the backup device can take over services within 0.2s to ensure normal network operation.

Product Specifications

Technical Specifications

Standards RS232,RS422,RS485

Interface

Fiber Ports

- ▼ SM/MM fiber port, ST/FC connector

Serial Ports

- ▼ Quantity of serial ports:
- ▼ 4 RS232, 2 RS485/RS422 (KODT2200),
- ▼ 8 RS232, 4 RS485/RS422 (KODT2200B)
- ▼ Electrical characteristic: compliant with RS232/RS422/RS485 standards
- ▼ Physical interface: DB25, female
- ▼ Bit Error Rate: ≤10⁻¹⁰
- ▼ Asynchronous rate: 0-115.2Kbps (Adaptive)
- ▼ Transmission Distance: RS232: 15m; RS422/RS485: 1200m

Console Port RS232, RJ11 connector

Version: 2015V1.0

LED Indicators

Indicators in the front panel

- ▼ Running LED: Run
- ▼ Interface LED:
 - ※ ORDA, ORDB, RXD1-RXD4 (KODT2200)
 - ※ ORDA-ORDD, TX1-TX8, RX1-RX8 (KODT2200B)

Power Requirements

Power Input

- ▼ 12DC(9-18VDC),
- ▼ 24DC(18-36VDC),
- ▼ 48DC(36-72VDC),
- ▼ 110DC(77-154VDC),
- ▼ 220AC/DC(85-264VAC/120-300VDC)

Power Terminal

- ▼ 3-pin 3.81mm-spacing plug-in terminal block (KODT2200,KODT2200B);
- ▼ 3-phase AC electric outlet (KODT2200B)

Power Consumption

<2.7W (KODT2200), <3.3W (KODT2200B)

Overload Protection

Support

Reverse Connection Protection

Support

Physical Characteristics

Housing

Metal

Heat Dissipation Mode

Natural cooling, without fans

Protection Class

IP30

Dimensions

- ▼ 129mm×28mm×158mm(5.08 in×1.10 in×6.22 in)(KODT2200)
- ▼ 482.6mm×44mm×139.7mm(19 in×1.73 in×5.5 in)
- ▼ (KODT2200B)(W×H×D)

Weight

- ▼ 0.6kg (1.323 lb) (KODT2200)
- ▼ 1.5kg (3.307 lb) (KODT2200B)

Mounting

- ▼ Panel mounting (KODT2200)
- ▼ 19 inch 1 U Rack mounting (KODT2200B)
- ▼

Environmental Limits

Operating Temperature	-40°C --+85°C(-40°F- 185°F)
Storage Temperature	-40°C --+85°C (-40°F- 185°F)
Ambient Relative Humidity	5-95% (non-condensing)

Quality Assurance

MTBF	318,653 hrs
Warranty period	5 years

Approvals

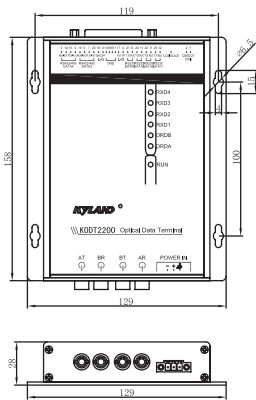
CE, FCC
Please check Kyland website for the latest updates.

Industry Standards

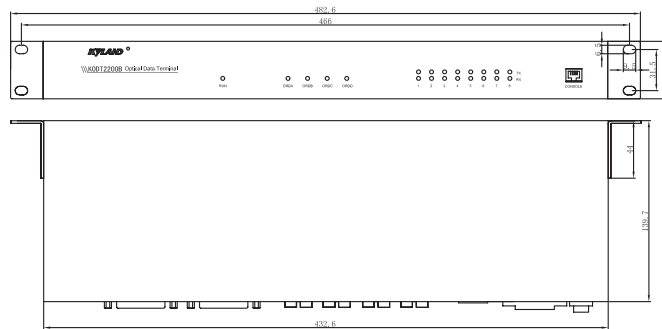
- EMI
- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A
- EMS
- ▼ IEC61000-4-2(ESD) ±6kV(contact),±8kV(air)
 - ▼ IEC61000-4-3(RS) 10V/m(80MHz-1GHz)
 - ▼ IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±1kV
 - ▼ IEC61000-4-5(Surge) Power Port:±1kV/DM,±2kV/CM;Data Port:±1kV
 - ▼ IEC61000-4-6(CS) 3V(10kHz-150kHz);10V(150kHz-80MHz)
- Mechanical standards
- ▼ IEC60068-2-6 (Vibration),
 - ▼ IEC60068-2-27 (Shock),
 - ▼ IEC60068-2-32 (Free Fall)

» **Mechanical Drawing**

Panel mounting (KODT2200)



19 inch 1 U Rack mounting (KODT2200B)



» **Ordering Information**

Panel Mounting	KODT2200-Ports-Connector-PS
Ports	
2S	2 single mode fiber ports
2M	2 multi mode fiber ports
Rack Mounting	KODT2200B-Ports2-Connector-PS
Ports	
2S	2 single mode fiber ports
2M	2 multi mode fiber ports
4S	4 single mode fiber ports
4M	4 multi mode fiber ports
Connector	100M fiber port specifications
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
PS	
H1	220AC/DC(85-264VAC/120-300VDC), single power input
H2	110DC(77-154VDC), single power input
L1	48DC(36-72VDC), single power input
L3	24DC(18-36VDC), single power input
L6	12DC(9-18VDC), single power input