

KODT3000/3000B

Multi-Serial to Optical Fiber Terminals

CE, FCC, ROHS
Chinese State Grid Certification**Overview**

The KODT series is specially designed for industrial application by KYLAND. It comes as the combination of serial data transmission, Ethernet and optical technology and communication for industrial process control.

Features

1. Supports chain, ring star and tangent ring network topologies
2. Dual fiber redundant technology, recovery time < 20ms
3. Serial ports: RS232/422/485
4. Serial port supports 15KV ESD protection circuit
5. Alarm output for the failure of fiber ports
6. Dual master station backup function
7. 9 full duplex data channels, 9x9 data cross-connection
8. Bus control arbitration
9. Level conversion function for data interface
10. 1 or 2 10Mbps industrial Ethernet ports
11. Network topology auto-generation
12. Kyvision management software
13. Wall mounting and rack mounting
14. Operating temperature: -40 to 85°C (-40 to 185°F)
15. IP30 protection class

Technical Specifications**Standard**

IEEE802.3, RS232/RS422/RS485 standard

Interface

Fiber Ports: 2 fiber ports, FC/SC/ST (KODT3000); 4 fiber ports, FC/SC/ST (KODT3000B)

Copper Ports: 1 x 10Base-T (KODT3000), 2 x 10Base-T (KODT3000B)

Serial Ports:

Bit Error Rate: $\leq 10^{-10}$

Asynchronous rate: 0-115.2Kbps (Adaptive)

Electric characteristics: comply with standard RS232/RS422/RS485

Physical interface: DB15-hole

Quantity of serial ports: 6 (KODT3000), 10 (KODT3000B)

Console interface: RS232, RJ45

Network

Ring, chain, star and tangent ring network topology

Cable

Serial cable: 15m for RS232, 1200m for RS422/485

Twisted Pair: 0-100m

Multi Mode Fiber: 1310nm, 0-5km (100Mbps)

Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 5VDC, 12VDC, 24VDC, 48VDC, 110VDC, 220VAC, single power input

Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block, 3-Pin AC socket

Power consumption: < 4W (KODT3000), < 6W (KODT3000B)

Physical Characteristics

Protection class: IP30

Dimensions (WxHxD): 129x28x158mm (5.04x1.10x6.22 in.) (KODT3000)

Dimensions (WxHxD): 482.6x44x157.7 mm (19x1.73x6.21 in.) (KODT3000B)

Weight: 1kg (2.205 pound) (KODT3000), 2kg (4.409 pound) (KODT3000B)

Installation: Wall mounting (KODT3000) and 19 inch 1U rack mounting (KODT3000B)

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 0 to 95% (non-condensing)

ApprovalsIEC61000-4-2 (ESD): $\pm 8KV$ contact discharge, $\pm 15KV$ air discharge

IEC61000-4-3 (RS): 10V/M (80-1000MHz)

IEC61000-4-4 (EFT): power line $\pm 4KV$, data line $\pm 2KV$ IEC61000-4-5 (Surge): power line $\pm 4KV$ CM/ $\pm 2KV$ DM, data line $\pm 2KV$

IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)

IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s

IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM

IEC61000-4-10 (Damped oscillatory): 30A/m

IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s

FCC CFR47 Part 15/EN55022: Class A&B

IEC61000-6-2 (Industrial Standards), IEC61850-3 (Substations),

IEEE1613 (Electric Power Substations), EN50121-4 (Railway Applications)

CE, FCC, ROHS, Chinese State Grid Certification

MTBF

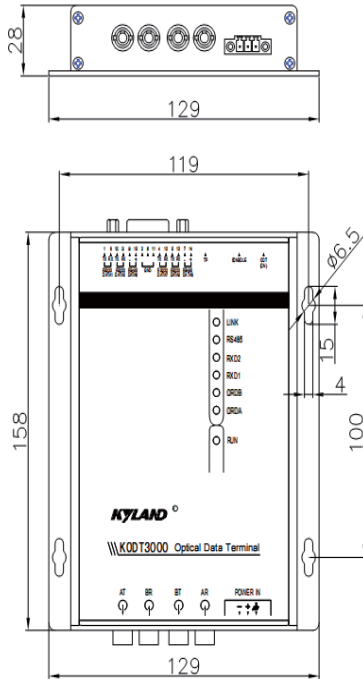
35 years

Warranty

5 Years

Mechanical Drawing

KODT3000



KODT3000B



Ordering Information

Model	Description
KODT3000-2S(M)	2 x fiber ports, SM/MM, FC/SC/ST, 1 x 10Base-T port, RJ45, 4 x RS232, 2 x RS485
KODT3000B-2S(M)	2 x fiber ports, SM/MM, FC/SC/ST, 2 x 10Base-T ports, RJ45, 8 x RS232, 2 x RS485,
KODT3000B-4S(M)	4 x fiber ports, SM/MM, FC/SC/ST, 2 x 10Base-T ports, RJ45, 8 x RS232, 2 x RS485

Power supply: 5VDC, 12VDC, 24VDC, 48VDC, 110VDC, 220VAC/DC, single power input

Please visit our website: www.kyland.cn for the latest updates.