



Fiber Optic Modem 20 Mbps Clock & Data

VK2800

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VK Series

Overview

The VK2800 is an extremely reliable high speed low cost point to point fiber optic clock and data modem. It is designed to link a remote terminal to the host computer via one or two single mode optical fibers. Users may plug the VK2800 modem directly into any selectable EIA-RS422/530 interface.

Using fiber optic CWDM technology the VK2800 can transfer high speed synchronous data up to 20 Mbps. It also provides a DCD signal when the receiver has received a data signal from the far end while the RTS and DTR control signals are internally loop backed for handshaking applications. Transmission distances can be used up to 40 Km with one single mode fiber optic cable.

The VK2800 is designed for any general purpose application between data communication equipment. Typical applications include remote terminal to host computer connections, tail circuits to multiplexers, monitoring equipment to a central control system, and situations requiring extended distances. It may also used in harsh environments because fiber optic cable is virtually impossible to tap without detection.

Applications for the VK2800 Series include campus fiber Traffic Control System, Metro Operation System, SCADA systems, Campus Networks and military applications.



Features

- High Speed Clock & Data Modem
- Synchronous Data Speed Up To 20 Mbps
- CWDM Technology
- Distances Up To 50 Km
- AGC Receivers
- EIA-RS422 Interface
- Extend Temperature NEMA Range

Applications

- ITS Traffic Applications
- SCADA Networks
- Metro Networks
- Gas & Oil Fields Monitoring Applications
- Railroad Networks
- Military Applications
- Data Acquisition Applications

Order Information

Model	Descriptions
VK2800ST03	High Speed Fiber Optic Data Modem, 20 Mbps, RS-422, DB25, 1310/1550nm SM ST, 50Km, +12 VDC
VK2800RST03	High Speed Fiber Optic Data Modem, 20 Mbps, RS-422, DB25, 1310/1550nm SM ST, 50Km, VK2300 Rack Card

Specifications

System:

Error Rate	1 in 10 ¹² or Better
Protocol	Synchronous Data
Indicators	PWR, TXD, RXD
NMS (Option)	VK2300 Chassis

Environment:

Operating	-34 ^o C to +74 ^o C
Storage	-40 ^o C to + 95 ^o C
Humidity	98% Non-Condensing

Physical:

Standalone	6" x 4" x 1.25"
Rack Card	1" x 4.5" x 10"

Power:

Standalone	+12 VDC @100mA
VK2300 Chassis	90~240 VAC 47~63 Hz

Optical Ports:

Transmitter	Lasers
Output Power	-3 dBm min @single mode
Receiver	PIN-TIA
Sensitivity	-32 dBm with AGC
Wavelength	1310/1550nm
Connectors	ST

Data Port:

Channel	1
Interface	RS-422/530
Data Format	Synchronous
Data Rate	100 bps to 20 Mbps
Connector	Female DB-25

Application

