



Vi-Link

Fiber Optic Communications

Fiber Optic Modem Synchronous RS-422 Data

Datacom Equipment Series

Model VK25



Product Description

Vi-Link ITS equipment: The VK25 is an extremely reliable low cost point to point one fiber optic synchronous 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 VK25 modem directly into any EIA-RS422 interface. Application options provide the flexibility to meet many requirements, supporting single mode fiber and all major connection types.

The VK25 multiplexer can transfer asynchronous data up to 5 Mbps with RS-422 (RS-530) interface. It 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 50 Km with one single mode fiber optic cable.

The VK25 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 VK25 Series include campus fiber Traffic Control System, Metro Operation System, SCADA systems, Campus Networks and military applications.

Features

- EIA RS-422 Interface
- Synchronous Data Modem
- Speed Up To 5 Mbps
- One or Two Fibers
- Distances Up To 40 Km
- AGC Receivers
- Extend Temperature NEMA Range
- Rack card with NMS Option

Applications

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

Ordering Information

Model	Descriptions
VK23LC03	Fiber Optic Data Transceiver (ODT/R), 1310nm SM LC 50Km, +5VDC
VK23RLC03	Fiber Optic Data Transceiver (ODT/R) Rack Card, 1310nm SM LC 50Km, +5VDC

*** Please Consult Factory for Additional Model Numbers***



Vi-Link

Fiber Optic Communications

Technical Specifications

Datacom Equipment Series

Model VK25

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	1310nm SM (Nominal) 850nm MM (short Distance) 1550nm SM (Long Distance)
Connectors	ST, FC and SC
Data Port:	
Channel	1
Interface	RS-422
Data Format	Synchronous
Data Rate	DC to 5 Mbps
Connector	Female DB-25

Application

Remote Intersection



VK25

Up to 50 Km SM Fiber



Traffic Control Center



VK25R

Typical VK25 & VK25R Chassis In Traffic Control Application