

Fiber Optic Synchronous Data Modem



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VK Series

Overview

Vilink 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.

The VK25 rack module series may be further maintained with the optional VILINK *Plus+ (NMS) Network Management & (GUI) Interface Software* Package n the universal VK2300 chassis. This permits any users the ability of monitoring the entire system for status alarms, such as loss of signal or optical signal, on any one of the system channels.

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

Order Information

Model	Descriptions	
VK25ST03	Fiber Optic Synchronous Data Modem, 1310nm SM ST 50Km, +12 VDC	
VK23RST03	Fiber Optic Synchronous Data Modem Rack Card Master Unit, 1310nm SM ST 50Km	



Technical Specifications



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Specifications

System:			
Error Rate	1 in 10 ¹² or Better		
Protocol	Synchronous Data		
Indicators	PWR, TXD, RXD		
NMS (Option)	VK2300 Chassis		
Environment:			
Operating	-34 ⁰ C to +74 ⁰ C		
Storage	-40°C to + 95°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

