Vi-Link
Fiber Optic Communications

VL

High Speed Fiber Optic Modem
20 Mbps Clock & Data

Datacom Equipment Series

Model   VK250

Product Description

The VK250 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 VK250 modem directly into any standard selectable EIA-RS422/530 interfaces or special clock & data cable.

Using fiber optic CWDM technology the VK250 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 50 Km with single mode fiber optic cable.

The VK250 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 VK250 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*

Ordering Information

Model	Descriptions
VK250LC03	High Speed Fiber Optic Data Modem, 20 Mbps, RS-422, DB25, 1310/1550nm SM LC, 50Km, +12 VDC
VK250RLC03	High Speed Fiber Optic Data Modem, 20 Mbps, RS-422, DB25, 1310/1550nm SM LC, 50Km, VK2300 Rack Card
	*** Please Consult Factory for Additional Model Numbers***

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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	-40^0C to $+95^0$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	LC (SFP)

Data Port:

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

Application

Remote Location
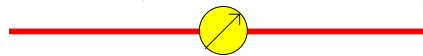
METRO Control Center

Up to 50 Km SM Fiber

VK250R

VK250

VK2300 Chassis

**Typical VK250 & VK250R Chassis
In METRO Control Application**