

## Overview

The VK23D is an extremely compact and reliable low cost point to point fiber optic modem. It is designed to link a remote terminal to the host computer via optical fiber. User's may plug the VK23 modem directly into any EIA-RS232 or RS-422 interface. Application options provide the flexibility to meet many requirements, supporting both multimode and singlemode fiber and all major connection types.

The VK23 modem can transfer asynchronous data up to 112 Kbps with RS-232 interface and 4Mbps with RS-422 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 loopbacked for handshaking applications. Transmission distances up to 5 Km with the 850nm multimode version and 15 Km with the 1310nm multimode, and 40 km with 1310nm singlemode version are possible.

The VK23D 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. With extended temperature ranges and optional conformal coating, the VK23 is well suited for remote, isolated, harsh environments.



## Specifications

### System:

Error Rate	1 in 10 <sup>10</sup> or better
Indicators	Link
Switch	RS-232 / RS-422

### Optical:

Transmitter	LED/LASER
Receiver	PIN
Power Budget	17 dBm MM; 25 dBm SM
Connectors	SC, ST, FC

### Data Rate:

Asynchronous	RS-232: Up to 112 Kbps RS-422: Up to 4 Mbps
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### Electrical:

Interface	RS-232 / RS-422
Connector	DB25

### Environment:

Operating	-34°C ~ 70°C
Storage	-40°C ~ 95°C
Humidity	95% non-condensing

### Power:

DC	9VDC ~ 100mA
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## Features

- Asynchronous Data up to 112 Kbps (RS-232) and 4 Mbps (RS-422)
- Multimode or Singlemode for extended distances
- Distances of up to 40 Km
- RS-232 / RS-422 User Selectable Switch
- ST / SC / FC Connection Options
- Extended Temperature Range for Harsh Environments

## Applications

- Terminal to Host Computer Connections
- Monitoring Equipment to a Central Control System
- Tail Circuit to Multiplexer Equipment
- CSU/DSU Extension



## Ordering Information

Model	Description
VK23-ST-01	RS-232/RS-422 Asynchronous Fiber Optic Modem, 850nm MM, ST, +12VDC
VK23-ST-03	RS-232/RS-422 Asynchronous Fiber Optic Modem, 1310nm SM, ST, +12VDC
VK23-ST-35 or VK23-ST-53	RS-232/RS-422 Asynchronous Fiber Optic Modem, 1310/1550nm SM, ST, +12VDC