

**VLM-500** fiber optic modem is designed to provide low-cost fiber connectivity for data communication equipment with RS-232 interface. A pair of VLM-500 can transmit asynchronous data at rates up to 64K bps with typical 20 dB optical link margin. VLM-500 features a DTE/DCE switch and DB25 female connector. This allows it to be directly connected to most standard RS-232 interface without xternal cabling. The optical signal of the VLM-500 can be controlled by the RTS signal. This feature allows multiple slaves VLM-500 to be connected to one master VLM-500 through the use of optical coupler. The VLM-500 displays its optical link status using the "Link/Data" indicator and the DTR/DSR signal. The "Link/Data" indicator also flashes when data is being received. VLM-500 is designed with very low power components. Power required for the multimode modem can be drawn from the standard RS-232 data and control signals. External AC power adapter is used for the single mode modem, and if the interface does not provide enough power for the ultimode modem.

### Features:

- Asynchronous Data up to 64 Kbps
- DTE/DCE Switchable
- Support Multimode and single mode fiber
- Typical 20 dBm Optical Link Margin
- Controlled Optical Signal
- Link/Data Indicator
- No External Power Required for multimode optic



### Specifications:

<b>Optical</b>	
Multimode:	850 nm wavelength
TX power	-20.0 dBm (min.) into 62.5 $\mu$ m cable w/ 12 VDC external power
RX sensitivity	-40.0 dBm (Max.)
Connector	ST
Single mode:	1300 nm wavelength
TX power	-15.0 dBm (min.) into 9 $\mu$ m cable
RX sensitivity	-40.0 dBm (Max.)
Connector	FC
<b>Electrical</b>	
Interface	RS-232
Data rate	Asynchronous 0 to 64k bps
Connector	DB25 female
Signal	TD, RD, RTS, CTS, DTR, DSR
<b>System</b>	
Power	9 VDC @ 100 mA (optional for multimode optic)
Display	"LINK/DATA" indicator
Dimension	3.2"W x 1.8"D x 0.8"H
Weight	6 oz.
Temperature	0 to 50°C
Humidity	0 to 95% non-condensing

### Status Indicators:

The VLM-500 also provides an LED indicator to display the following status:

**DATA/LINK** - indicating that valid optical signal is being received from the fiber. It also flashes to indicate that data is being transmitted.

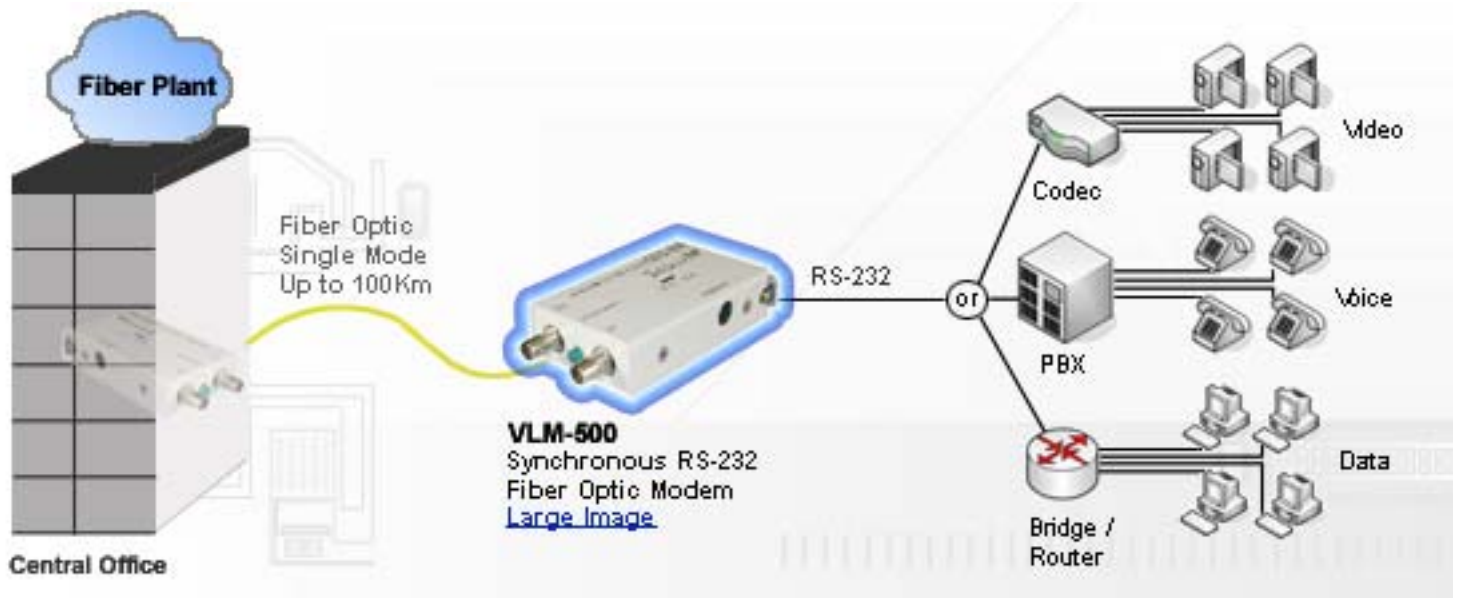
### Configurations:

The VLM-500 includes a slide switch that provides the following configuration selection:

**DCE/DTE** - selecting direction of the data flow to eliminate the need of external null cable.

## Applications:

VLM-500 is ideal for connecting remote terminal to the host computer, connecting remote monitoring equipment to the central controller, and link computers. With its controlled optical signal, VLM-500 can also be used for master to multiple slave connection. Because of the advantage of a fiber optic system, VLM-500 is the best solution for applications requires EMI/RFI immunity, electrical isolation, and data security.



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