

## Overview

The VK6300 Series is a reliable fiber optic modem that operates in both simplex and full duplex modes. Capable of synchronous and asynchronous operation, this modem can transfer data rates up to 2.048Mbps in synchronous mode and 112Kbps in asynchronous mode by way of a pair of multimode or singlemode fiber optic cables.

The VK6300 is configured as a point-to-point network configuration.

Uniquely flexible, the VK6300 features interchangeable electrical interfaces for the most common interface types including RS-232, RS-499 (RS-530), V.35, FXO/FXS voice channel, and T1/E1. The VK6300 is capable of independently clocking data in each direction and operating in selectable internal clock, external clock, or network clock mode.

In addition, the VK6300 can be optionally configured with an optical redundant module complete with automatic switching to assure high reliability.

The VK6300 provides a full display of diagnostics including local and remote loop back tests and visual status indicators. The VK6300 additionally provides a relay-contact alarm for optical and power failure.

## Ordering Information

Model	Description
VK6300E1ST03	Fiber Optic G.703 E1 Interface, Standalone, 1310nm SM, ST
VK6300RE1ST03	Fiber Optic G.703 E1 Interface, Rack Card, 1310nm SM, ST
VK2300	3 RU, 10 Slots Chassis
VK2300PSAC	90-240 VAC Power Supply Module For VK2300 Chassis

*Note: Replace the above "E1" with "T1", "V.35", "422", "232" for other interfaces.*



## Features

- ◆ Supports RS-232, RS-449, V.35, FXO/FXS Voice Channel, and T1/E1 Interfaces
- ◆ Synchronous Data Speeds up to 2.048Mbps
- ◆ Internal/External/Slave Clock
- ◆ Transmits up to 40Km
- ◆ Local and Remote Loopback Test
- ◆ 7 Status indicators

## Applications

- ◆ Local Exchange Digital Service
- ◆ Fractional T1/E1 Campus Networks
- ◆ Teleconferencing
- ◆ T1/E1 splitting
- ◆ SCADA Networks
- ◆ Traffic Networks
- ◆ Corporate and Enterprise Networks

### System:

Error Rate 1 in 10<sup>9</sup>  
 Indicators PWR, TXD, RXD, LLB, RLB, LMON  
 Diagnostics Local and Remote Loopback  
 Alarm Relay Contact (Fiber Loss)  
 Controls Internal, External, Network Clock, Local /Remote Loop

### Environment:

Operating -34<sup>0</sup>C to 74<sup>0</sup> C  
 Storage -40<sup>0</sup>C to 95<sup>0</sup> C  
 Humidity 95% Non-Condensing

### Power:

AC 90-240 VAC, 47-63 Hz  
 DC -48 VDC (Optional)  
 Volts/Amp 5 VDC @ 2.5 Amp

### Optical:

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

### Data Rate:

Internal Clock 56 Kbps to 2.048 Mbps  
 External Clock 75 Bps to 2.048 Mbps

### Electrical:

Interface G.703 E1, DS0 T1, CCITT V.35, FXO, FXS, RS-422, RS-232

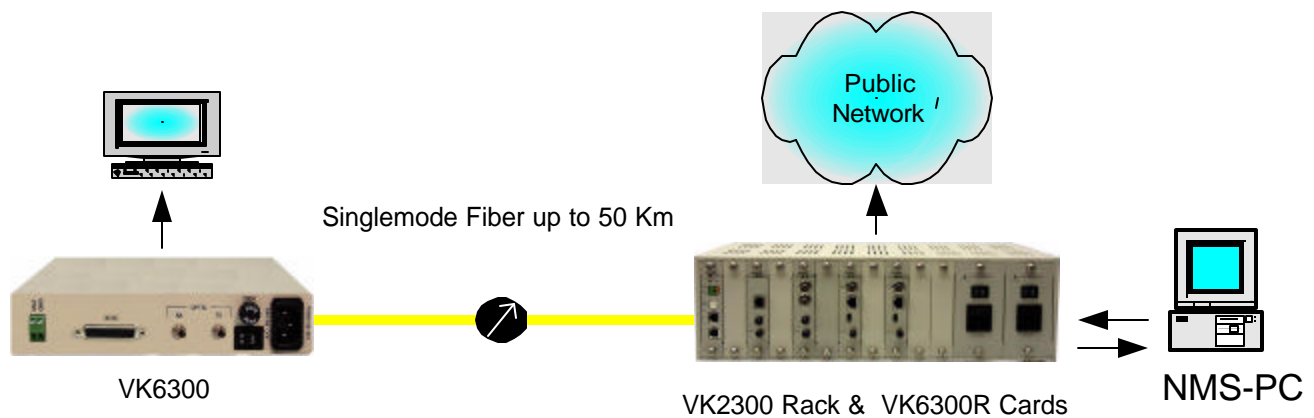
### Physical:

Dimensions Standalone 8.5" x 1.6" x 10", Rack Card 4.25" x 1" x 10", Weight 2.5 lbs.

### VK2300 Chassis:

Slots 10  
 Power Modules 90-240 VAC, -48 VDC

## Example Applications



**Typical VK6300 Fiber Optic Modem Point-To-Point Application**