



# FiberLoop Modem



## Guide

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## Introduction / Overview

The FiberLoop Modem provides dial-up communication between the FiberLoop Management Station and the FiberLoop Device. Communication occurs at 300 baud over POTS (Plain Old Telephone System) via Priority Electronics Ltd 's proprietary modem signaling. The FiberLoop Modem is connected via an RS232 cable to a terminal server (not supplied) which allows for TCP/IP network communication between multiple FiberLoop Modems and a single FiberLoop Management Station.

## Included with the Modem

- 1 RJ11 Phone cord 6 feet
- 1 6 VDC Power adapter
- 1 FiberLoop Modem Guide
- 1 FiberLoop Modem

## Required Products

- 1 RS232 Cable for connection between Terminal Server and FiberLoop Modem
- 1 Terminal Server  
TCP/IP Network

## Installation

Basic installation entails connecting the various ports located on the back of the FiberLoop Modem to the appropriate external devices. Power is required to at least one of the two sperate power connectors. One 6VDC power supply is supplied. Also supplied is an RJ11 phone cord. Required but not supplied is a RS232 cable for connection to the terminal server. Pin outs or configurations for this cord maybe found in the appendix section of this manual.

Begin by connecting the FiberLoop Modem to a POTS phone line via the supplied RJ11 cable. The RJ11 cable should be connected to the PHONE port. Next connect the terminal server cable to the RS232 port and finally connect at least one of the two power cables to the appropriate power port.



## Operation

Operation of the FiberLoop Modem is accomplished via the FiberLoop Management Station and remains transparent to the user. It is possible to directly connect to the FiberLoop Modem by use of a terminal server or a PC running terminal emulation software. See the Function List for the available command set in the appendix.

## LED Descriptions

- |          |  |
|----------|--|
| PWR1     | - Flashes to indicate that Power is connected to the port on the back of the Fiberloop Modem   |
| PWR2     | -Flashes to indicate that Power is connected to the port on the back of the Fiberloop Modem  |
| Off Hk.  | -Flashes to indicate a ringing signal is present on the phone line. LED is solidly illuminated when the FiberLoop Modem answers an incoming call (or initiates one). |
| Car Det. | -Solidly illuminated when a carrier is detected from a FiberLoop Device.   |



## Appendix

### Function List - Command Set

Name	Command	Description
<b>Reset</b>	<CTRL>R	Resets modem and forces <b>On Hook</b> condition

**Function D**    **#Dddddddddd**    Dial phone # supplied, where **d**- is the phone number supplied 7-11 digits

This command only works when the FiberLoop Modem is in a **On Hook** condition. If the FiberLoop Modem is in an **Off Hook** condition and connected, the command is passed through to the FiberLoop Unit.

**FiberLoop response:**

**Dialing<CR>**    Sends this message to indicate that command received the FiberLoop returns "." every second to indicate that call is progressing.

**Call\_Fail<CR>**    Indicates that call timed out

**Connect<CR>**    Indicates that the call connected to the FiberLoop at the number dialed

**No\_Carrier<CR>**    Indicates the carrier was lost after the FiberLoop modem was connected

**Function S**    **S<CR>**    FiberLoop Modem status (Status info is available for the two power ports only)

This command only works when the FiberLoop Modem is in a **On Hook** condition. If the FiberLoop Modem is in an **Off Hook** condition and connected, the command is passed through to the FiberLoop Unit.

**FiberLoop Response:**

**SS <CR>**    Where SS represents the power error status condition for PWR1 and PWR2 respectively. S=1 indicates an error situation and no power to the respective port. 0 indicates no error and power is available to the respective port.

The FiberLoop Modem is always monitoring the serial port for commands and the phone line for ringing. If ringing occurs the FiberLoop Modem will go Off Hook to answer the call and to determine if a FiberLoop unit is calling. If the caller is determined to be a FiberLoop Unit, the FiberLoop Modem will connect to the FiberLoop unit and send the message **ANSWER<CR>** to the serial port and then go into data mode.

### FiberLoop Modem Specs.

### RS232 Configuration (RJ45)

√	RS232 Jack: RJ45	1-NC
√	Proprietary Modem Signalling	2-NC
√	Baud Rate of 300 bps	3-RXD (RS232 - Input)
√	8 Bit No-Parity RS232 Data	4-GRD
	Input	5-GRD
√	Power Input Connectors (2):	6-TXD (RS232-Output)
	Mate-L-Lock (Amp)	7-NC
√	Voltage Input: 6 Vdc to 9 Vdc	8-NC
√	Current Consumption: Under 100 mAdc	
√	Phone Jack: RJ11	
√	Phone Line Input: 2 Wire POTS	
√	Dimensions:	
	5.5" (14cm)L x 5.6" (14.2cm)W x 1.6" (4.1cm)H	
√	Weight: 1 lbs (0.45 Kg)	