

## Features



- DataSpy™ Status Display
- Range to 10 Miles
- Data Rates to 19.2 KBPS
- Screw Terminals and RJ-11 Included for Twisted Pair
- External DTE/DCE Switch
- Built in Surge Protection
- Male or Female RS-232
- No Power Required

and full duplex operation up to 19.2 KBPS. The Model 221 is equipped with screw terminals and an RJ-11 connector to offer the user a choice of termination for the four wire line. The DTE/ DCE switch allows reversing of pins 2 and 3 of the RS-232 connector to accommodate computers, terminals and multiplexers. Surge protection for the four wire line is also built in.



## Product Description

The Model 221 Auto Powered Line Driver includes Telebyte's unique patent pending DataSpy LCD display, which provides the user with important status information regarding the operation of the device. This LCD operates from less than one milli-watt of power thereby not affecting the operation of the Model 221.

The LCD is extremely useful during the installation and checkout and whenever there are suspected problems. The graphic display presents the user with live status of the transmit and receive data signals, TD and RD, and control signals, RTS, CTS, DSR, DCD and DTR.

The Model 221 requires only TD, RD, and signal ground for power

Model 221 Distance Table (Miles)			
Data Rate KBPS	Wire Gauge		
	19	24	26
19.2	2.1	1.2	0.9
9.6	4.9	3.1	1.8
4.8	7.4	4.9	3.1
2.4	9.3	6.2	4.9
1.2	10.8	7.4	5.5

**Model 221M**  
**Model 221F**  
*For RJ-45 Add P2*

*Without LCD*  
**Model 221MX**  
**Model 221FX**

## Specifications

- Data Rate:** 0 to 19.2 KBPS
- Transmission Controls:** CTS (Pin 5) turns ON immediately after the terminal raises RTS (Pin 4), DSR (Pin 6) and DCD (Pin 8) turn ON immediately after the terminal raises DTR (Pin 20)
- Transmission Mode:** Full Duplex
- Transmission Line:** 4 wire, unconditioned line (2 twisted pairs)
- Transmit Level:** 0 dBm
- Connectors:** EIA RS232/CCITT V.24, male or female DB25 Connector
- Line Connection:** RJ-11 jack and screw terminals
- LCD Indicators:** TD & RD Graphic, RTS, CTS, DSR, DCD and DTR
- Power Supply:** None required, uses ultra low power circuitry
- Size:** .8"H (20.3mm) X 2"W (51mm) X 4.1"L (104 mm)
- Weight:** 2 oz
- Environment:** 0° to 50°C, 0% to 95% RH
- Altitude:** 0 to 10,000 feet
- MTBF:** 530,000 Hours (60 Years)
- Approvals:** CE Marked

Made by Telebyte in the USA

## Typical Application

