ABSTRACT

MODEM

A modem receives data sent from a remote device over a communication channel by using a single carrier modulated signal. The modem includes a receiver which receives the modulated signal and a line probing signal sent by the remote device over the channel. The receiver is capable of receiving the modulated signal over any one of a plurality of frequency bands. A line probing processor measures characteristics of the channel based upon the received line probing signal. A selector selects one of the plurality of frequency bands, this selection being based upon the measured characteristics of the channel. The selected frequency band is to be used for receiving the modulated signal from the remote device.

This Sheet Has Been Replaced