Product Description

The transmitting and receiving functions are called within a single function called V32_isr. This function is called to process received samples and to generate samples to transmit. The V32_init function is called to initialize the V.32/32bis modem. This function initializes the structure which contains all the memory required for the modem. The V.32/32bis modem can be adapted for a variety of sampling rates such as 9600 Hz or 7200 Hz. The V.32bis/V.32 modem is designed to process data in 10 ms intervals.

Key Features

✓ Full duplex mode of operation on switched and 2 wire, point-to-point, and leased circuits

✓ Channel separation is accomplished using echo cancellation techniques

✓ QAM is used for each channel, with synchronous line transmission at 2400 baud

✓ Data signaling rates: 14400, 12000, 9600, 7200, and 4800 bps synchronous

✓ Trellis coding at rates from 7200 to 14000 bps for V.32bis

✓ For V.32, two alternative modulation techniques are used for a signaling rate of 9600 bps, one uses 16 carrier states and one uses trellis coding with 32 carrier states

✓ Exchange of rate sequences is provided during start-up to establish the data rate, coding, and any other special facilities

✓ The frequency carrier operates at 1800 Hz

✓ Transmitted power levels conform to V.2

✓ The modulation rate is 2400 symbol

Leadership in Embedded Communications Software

With over a decade of experience, GAO leads the embedded communications software market by providing comprehensive modem, fax, speech, and telephony technologies; broad technical expertise; and unsurpassed support to our world-class customers including electronics, communications, and semiconductor companies across the globe. GAO's software integrates easily with MP3, MPEG, TCP/IP, and most popular real-time operating systems.

Rigorous Testing

GAO's testing facilities are equipped with state-of-the-art test equipment. Our software is rigorously tested on TAS, Consultronics, Rochelle, Advent and Telegra equipment under various channel models according to the relevant ITU or TIA standards. All GAO's speech software has passed the test vectors specified by the ITU. Our telephony software meets all appropriate TIA, EIA, BellCore, and Mitel standards.

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