



## **Product Description**

GAO's V.42bis software for data compression enhances the performance of error correcting modems by making better use of an often over-crowded communications channel. By using a variable length code to represent fixed length characters, the most commonly transmitted characters are compressed and represented by a codeword much smaller than the conventional bit code. GAO V.42bis encodes a string of characters with a fixed length code. The system uses a dictionary, which has a hierarchical tree structure, to store frequently occurring character strings, along with a code to represent these character strings.

## **Key Features**

- ✓ String matching
- ✓ Encoding
- ✓ Transfer
- ✓ Dictionary updating
- ✓ Node recovery

## **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.



**GAO Research Inc.**

Leader in Embedded Technology

*Product Overview*

V.42bis Data Compression

## **GAO Group**

*Celebrating Over 15 Years of Innovation*

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