



GAO Research Inc.
Digital Network Echo
Canceller (ITU G.168)

GAO Research Inc.

#1 In Embedded Communications Software

<http://www.gaoresearch.com>

Features

- ▶ Implemented in assembly or C.
- ▶ User-callable functions.
- ▶ Double-talk detection.
- ▶ Configurable echo tail length options: 8, 16, 32, 64 or 128 msec.
- ▶ Compliant with the ITU G.168 recommendation.

Product Description

GAO G.168 echo cancellation software module is intended for use in the 4-wire portion of a circuit and is used for reducing the echo by digitally subtracting an estimated echo from the circuit echo. GAO's G.168 echo cancellation software has the following fundamental requirements:

- 1) Rapid convergence;
- 2) Low returned echo level during single talk;
- 3) Low divergence during double talk;
- 4) Assured double talk detection;
- 5) Proper operation during facsimile and low speed (<9.6 kbit/s) voice-band data transmissions.

Leadership in Embedded Communications Software

With 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 also adheres to stringent quality control procedures, which is reflected in our well structured code, detailed design documentation, and well-defined design and test plans. This ensures ease of integration into the customer's system, easy maintenance, and a smooth upgrade path for next-generation customer products.

Contact Information:

GAO Research Inc.

601 Milner Avenue, Suite 300
Toronto, Ontario, M1B 1M8, Canada

Tel: 1-(416) 292-0038

Fax: 1-(416) 292-2364

E-mail: info@gaoresearch.com

Web: <http://www.gaoresearch.com>
