



# GAO Research Inc. Automatic Gain Control (AGC) Software

**GAO Research Inc.**

*#1 In Embedded Communications Software*

<http://www.gaoresearch.com>

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## **Features**

- ▶ Implemented in assembly or C.
- ▶ User-callable function.
- ▶ Low data and program memory requirements.
- ▶ User selectable depth and envelope of the gain control.
- ▶ Wide dynamic range.

## **Product Description**

GAO's AGC software is designed for speech processing applications. It adaptively controls the dynamic range of a speech signal without amplifying the noise between words and phrases. It consists of two parts: voice activity detection and gain control. AGC is an ideal solution for applications requiring consistent audio levels. The AGC consists of two user-callable functions, AGCinit and AGC.

## **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.

## **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.

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