



GAO Research Inc.

G.722.2 (AMR-WB) Vocoder

GAO Research Inc.

#1 In Embedded Communications Software

<http://www.gaoresearch.com>

Features of G.722.2 (AMR-WB) Vocoder

- ITU-T G.722.2 compliant and passes all ITU-T test vectors.
- Full and half duplex modes of operation.
- Adaptive Multi-Rate ranges from 6.6kbit/s to 23.85 kbit/s.
- Multi-Channel ready.
- Optimized C or Assembly code.

Product Description

ITU-T G.722.2 is an international standard for wide-band audio compression. The G.722.2 standard uses an Adaptive Multi-Rate Wide-Band (AMR-WB) codec. GAO's G.722.2 multi-rate codec operates between 6.6 kbit/s to 23.85 kbit/s. By utilizing a wide-band of 50Hz to 7kHz, GAO's G.722.2 algorithm provides higher-than-toll quality speech. GAO's algorithm utilizes ACELP technology. Both the IP network and the 3G network use the same codec which provides seamless interoperability.

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.

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.

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