

## G.729/ G.729A CS-ACELP Speech Vocoder Software (G.729/ G.729A Speech/ Audio Codec Software)

Floreat G.729 and G.729A speech vocoder software implements the ITU-T G.729 and Annex A recommendations. The G.729 speech codec software is 8 Kbps Conjugate-Structure - Algebraic Code-Excited Linear Prediction (CS-ACELP) speech compression algorithm. The G.729A annex is a reduced complexity version of the G.729 audio codec. G.729 and G.729A speech vocoder software provide toll quality speech and offer superior bandwidth utilization, making them excellent alternatives to other speech compression algorithms.

G.729 Annex A speech codec software was primarily developed for use in multimedia simultaneous voice and data applications like DSVD; DSVD is also offered by Floreat in its software portfolio. The G.729/ G.729A audio codec software processes signals with 10 ms frames and has a 5 ms look-ahead which results in an algorithmic delay of 15 ms. The input/output of this algorithm is 16-bit linear PCM samples that are converted to and from 8 Kbps compressed data stream.

The G.729 and G.729A provide less algorithm delay. The better speech quality along with good compression rates makes for an excellent choice for many applications including VoIP.

Floreat G.729 and G.729A audio codec software can be integrated with Floreat's other fax, telephony, speech compression, VoIP, FoIP, DSVD, imaging and video software for various applications. Floreat G.729 and G.729A audio codec software is supported on various DSPs and processors as well as offered in ANSI C.

### Floreat supports its software on the following DSPs, Controllers and Processors

- TI C5000 and C6000
- Intel Pentium fixed and floating point and XScale
- ADI Blackfin (BF53x), SHARC 21xxx
- ARM 7/9/9E, MIPS
- PowerPC, STM, SuperH cores, Philips Nexperia
- CEVA (formerly DSPG's licensing division)
- Ported by customers to their processors:
  - NEC
  - STM
  - Zilog

- ▶ For further information on the standard, please click [ITU Standards](#).
- ▶ For our brief profile, please click [Company Profile](#).
- ▶ For further inquiry, please send us an [Inquiry Form](#) or send an email to [info@floreatinc.com](mailto:info@floreatinc.com).