

G.722-C54x Data Sheet

Introduction

Beijing YiYuanZhuCheng (YYZC) G.722 audio coding software is an implementation of ITU Recommendation G.722 64 kbit/s SB-ADPCM audio (50 to 7 000 Hz) coding system. The software runs on the Texas Instruments (TI) TMS320C54X family of Digital Signal Processors. The G.722 voice codec may be used for a variety of higher quality speech applications, which has three modes with bit rates: 64, 56 and 48 kbit/s. The latter two modes allow an auxiliary data channel of 8 and 16 kbit/s respectively. Both encoder and decoder pass all ITU-T test vectors.

Resource Requirements^{*†‡}

Software	MIPS (Peak & Average)
Encoder	4.53
Decoder	3.57

Software	Program Memory	Const Data Memory	Stack Memory	Per Channel Data Memory
Encoder	800	1,200	100	132
Decoder	7,00	1,200	100	132
Encoder + Decoder	1,200	1,200	100	264

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* All MCPS results are based on TI CCS 3.3.38.2 C54x Simulator when encoding/decoding the ITU-T test vectors. The real cycles may vary when running on different C54x DSPs and different inputs.

† All memory usage figures are given in unit of byte.

‡ YYZC keeps the right to update the software without updating these figures.