

INTERNATIONAL TELECOMMUNICATION UNION

ITU-T RECOMMENDATION SUMMARY

Rec. No. : G.726

Title : 40, 32, 24, 16 kbit/s Adaptive differential pulse code modulation (ADPCM)

Study Group : XV - Transmission Systems and Equipment

Version : New

Date of adoption : 1990

Notes :

Recommendation G.726 sets out the characteristics below are recommended for the conversion of a 64 kbit/s A-law or μ -law pulse code modulation (PCM) channel to and from a 40, 32, 24 or 16 kbit/s channel. The conversion is applied to the PCM bit stream using an ADPCM transcoding technique. The relationship between the voice frequency signals and the PCM encoding/decoding laws is fully specified in Recommendation G.711.

The principal application of 24 and 16 kbit/s channels is for overload channels carrying voice in Digital Circuit Multiplication Equipment (DCME).

The principal application of 40 kbit/s channels is to carry data modem signals in DCME, especially for modems operating at greater than 4800 kbit/s.

First, Recommendation G.726 provides an outline description of the ADPCM transcoding algorithm, it provides further the principles and functional descriptions of the ADPCM encoding and decoding algorithms respectively, and finally the precise specification for the algorithm computations. Networking aspects and digital test sequences are addressed also in Recommendation G.726.

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