

CMX605

Digital-to-Analogue, POTS, Signalling Interface

The CMX605 is an integrated telecom tone generator and DTMF encoder/decoder (codec) designed for ISDN interfaces, wireless local loop and analogue-to-digital phone conversion systems.

The tone generator provides a range of tones used in analogue phone systems (POTS). Three outputs are provided: 'ringing signals', 'in-band tones or FSK data', and '12kHz/16kHz metering pulses'. Simple software control facilitates the interface to a range of commonly used μ C and SLICs. The DTMF encoder/decoder presents DTMF dialling information (received from the telephone user) and generates appropriate DTMF tones for the POTS interface.

Features

- Full, global call progress tone sets (CAS tones)
- CIDCW alert signals
- Codec DTMF encode and decode to CEPT specifications
- Programmable ringing signals
- 12kHz and 16kHz metering pulse generation
- Modem/fax: answer and originate tones
- CCITT R1 and R2 tone generation
- 'Soft start' to final level adjustment
- V.23/Bell 202 FSK encoder with UART
- Serial control interface
- On-chip summing application

Applications

- ISDN terminal adapters
- Feature phones
- Adjunct boxes

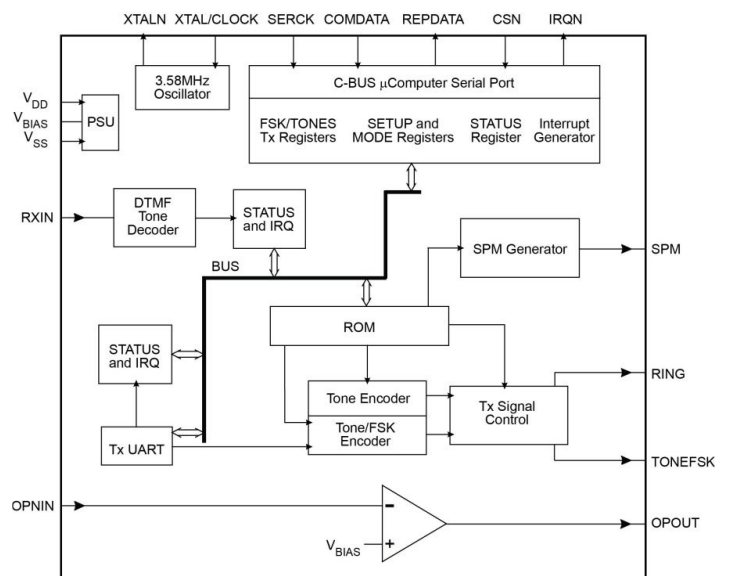
Supply Requirement

- 2.7 to 5.5V

DTMF tone pairs can be encoded along with each tone singly or with other dual tone signals.

Tone standards supported are: fax and modem 'answer' and 'originate', ITU 'R1' and 'R2' signals and sufficient tones for melody generation.

Communication to and from the host μ Controller is performed by C-BUS serial interface.



CMX605 Block Diagram



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