

CMX639

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CVSD Voice Codec

The CMX639 is a Continuously Variable Slope Delta modulation (CVSD) full duplex codec for use in consumer and commercial digital voice communication systems.

The CMX639 is ideal for use in a variety of consumer and business digital voice applications. Its CVSD Codec simplifies design and eliminates the costs, complexity and risk of external filters and software algorithms.

Features

- Single Chip Full Duplex CVSD Codec
- On-Chip Input and Output Filters
- Programmable Sampling Clocks
- 3 or 4-Bit compand algorithm
- Robust Coding for Wireless Links
- Encode and Decode Force-idle
- Separate Rx and Tx Paths
- Simple Control

Applications

- Consumer and Business Handheld Equipment
- Digital Voice Systems
- Spread Spectrum Wireless
- Cordless Phones
- Voice recording and storage
- Delay Lines
- Time domain Scramblers
- Multiplexers and Switches

Supply Requirement

- 3.0 to 5.5V

Internal data/sampling clocks (at rates of 8kbps to 128kbps) are derived from a reference oscillator that uses an external clock crystal and is provided to synchronise external circuits.

Multiplexer applications are well supported by the encoder output's three-stage/high impedance enable feature.



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WHAT TO DO NEXT

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CML Microcircuits Benefits

Faster time to market

Developing proven high performance and field tested ASSP ICs, CML is helping engineers to cope with increasing pressure in delivering shorter project design cycles.

Design flexibility

CML's *FirmASIC*[®] reconfigurable technology with the use of a Function Image upload enables a single hardware platform to be used for multiple communications systems.

High Quality

With 100% of products being tested before shipping, customers are assured of the highest reliability.

Product Longevity

Designing with CML products, manufacturers are rewarded with longer product life cycles and a stable BOM, ensuring minimum engineering costs and maximum profit.

Low Power

Being at the forefront of low power chip technology, manufacturers can develop smaller equipment with extended battery life.

Superior Support

Internal and field based applications teams worldwide provide focused customer support to ease the development process.

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