

CMX885

Marine VHF Audio and Signalling Processor

The CMX885 is a half-duplex, audio, signalling and data processing IC for use in Marine VHF radio systems. Voice-band processing, filtering, pre- or de-emphasis and frequency inversion scrambling are included. Signal routing and filtering is provided to assist host μC based signal encoding/decoding applications.

A 1200bps Digital Selcall (DSC)/Automatic Transmitter Identification System (ATIS) modem with protocol support and National Oceanic and Atmospheric Administration (NOAA) and National Weather Radio (NWR) decoding are supported.

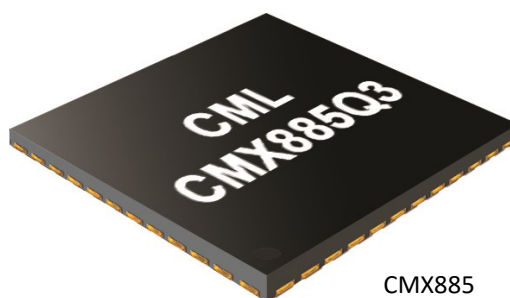
A DTMF encoder/decoder, auxiliary ADCs and DACs and dual synthesised clock outputs are included in this PMR processor.

Features

- Concurrent Audio, Signalling and Data Operations
- Complete Audio Band Processing:
 - Selectable Audio Processing Order
 - Pre and De-emphasis selectable 2.55/3.0 kHz Filtering Limiter
- Programmable Voice-band Scrambler
- In-band Signalling:
 - DTMF
 - NOAA NWR
- DTMF and Audio Tone Encoder
- Dual Auxiliary ADC with 4 Multiplexed Inputs
- C-BUS Serial Interface to Host $\mu\text{Controller}$
- Four Auxiliary DACs
- Dual Programmable System Clock Outputs
- Tx Outputs for Single or Two-point Modulation
- Three Analogue Inputs
- Digital Gain Adjustment
- DSC/ATIS Modem for Marine Applications
- Default 3.6864MHz Xtal/Clock
- Low Power Operation with Flexible Powersave Modes
- Compact 48-pin VQFN and LQFP Packages

Evaluation and Demonstration kits for the CMX885:

The EV8850 is an evaluation kit for the CMX885.



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Applications

- Marine VHF Radio and/or Marine Safety Systems

Supply Requirement

- 3.3V power supply



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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