

DE6491

Demonstration Kit for CMX649 Wireless Voice Link

The DE6491 is a CMX649-based wireless voice link demonstration kit that demonstrates CMX649 ADM Voice Codec IC operation in a low-power, cordless headset application. Operating as a short range RF device in the 863 to 865 MHz European licence-exempt band, this demonstration kit consists of two separate stand-alone PCBs each with the following sections: CMX649-based audio, RF transceiver and control.

Features

- Operates in the 863 to 865 MHz European Licence Free Band
- 20m Range - Line of Sight
- Privacy via CMX649 Digital Scrambler
- On/Off, Volume and RF Channel Pushbutton Controls
- Phone Quality Voice Transmission using TDD Airlink Protocol
- Selectable RF Power

Applications

- Full-Duplex Wireless Voice-Link Communication Demonstration using the CMX649 ADM Voice Codec

Supply Requirement

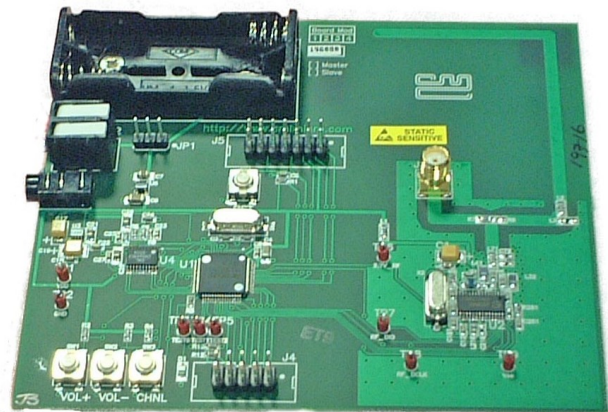
- 2.9V to 5.5 V

For further information, please refer to the 'Design Resources' section on the CMX649 product page at cmlmicro.com

The basic design may be user adapted to other RF frequencies. Full-duplex voice operation at up to 20 metres range is provided via a single RF channel Time Division Duplex (TDD) link. With the supplied headsets a user can investigate two-way voice-audio transfer between units. Each PCB can be powered, standalone, from either batteries or a bench power supply.

Intelligent power saving reduces supply current when not communicating. Each terminal draws between 17 to 25 mA when communicating or 850µA, typical, when powersaved.

Each on-board Controller's FLASH memory comes programmed with the latest version of operating firmware. If desired, a user may reprogram and in-circuit debug the Controller themselves, using a proprietary programmer (not included).



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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

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