

DE6181

1 February 2018

Demonstration Kit for CMX618 and CMX7141

The DE6181 is designed to assist in the evaluation of this family of products, when loaded with a Function Image™ (FI) and the CMX618 IC.

Features

- Target CMX IC and CMX618 Devices On-board
- Function Image™ load from C-BUS or Serial Flash Memory (this product is only currently valid with the CMX7141 Function Image™)
- Mic., Speaker, Line-out and Tx/Rx Interfaces
- Auxiliary ADC and DAC Interfaces
- C-BUS serial Interface
- Control by PC via the User's Microcontroller
- Interfaces to RF Daughterboard with all Necessary Signals
- On-Board Power Regulation and Distribution

Supply Requirement

- 4.5 to 5.5 V power supply

Applications

- For Demonstration and Design-in of CMX618 with CMX7141

For further information, please refer to the 'Design Resources' section on the CMX618 or CMX7141 product page at cmlmicro.com



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The kit is in the form of a populated PCB comprising a target CMX IC and a CMX618 RALCWI IC with appropriate supporting components and circuitry. Function Images (FI) for dPMR radio designs and other applications are available from the CML website.

The board is fitted with connectors allowing the DE6181 to be operated with a CML PE0003 Universal Interface Card and associated PC GUI software, or by direct connection between the target IC's C-BUS serial port and the user's μ C development application or emulation system.

The Function Image™ (FI) can be loaded, on power-up, directly into the on-board target IC using the PE0003 interface or the user's system. Alternatively, it can be pre-loaded, separately, into the on-board Flash EEPROM for automatic operation on power-up.

The target CMX device is specially configured for use on the DE6181 kit and is not available as a production part. It is capable of demonstrating the operation of any CMX714x Digital PMR (dPMR) product.

The DE6181 board also incorporates all the necessary power-supply regulation facilities for operation from a single 5 volt supply, together with a number of board jumpers to enable various circuit arrangements to be effected.

Note: The target IC, the CMX7140, is a functional emulation IC for use with this DE6181 DemoKit and is not available as a production IC.

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

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www.cmlmicro.com

United Kingdom
United States
Singapore

Tel: +44 (0) 1621 875500
Tel: +1 336 744 5050
Tel: +65 62888129

email: sales@cmlmicro.com
email: us.sales@cmlmicro.com
email: sg.sales@cmlmicro.com