The EV9830 Evaluation Kit allows evaluation of the CMX983 Baseband Interface for Digital Radio.

**Features**
- External VCO connection option to both fractional-N synthesizers
- 900MHz and 2.1GHz VCOs fitted
- Access to RF, control and baseband signals via connectors and test points
- On-board supply regulators operate from a dual +/-6V supply
- Command and control by PC via the PE0003 Universal Interface Card or user’s microcontroller development application or emulator
- 19.2MHz oscillator or external clock input to CMX983
- Differential to single-ended instrumentation interfaces
- On-board access to all CMX983 signals, commands and data

**Supply Requirement**
- Dual +/-6 V

For further information, please refer to the ‘Design Resources’ section on the CMX983 product page at cmlmicro.com

For evaluation of the Fractional-N synthesisers, a 900MHz VCO is fitted with connections to synthesiser 1 and a 2.1GHz VCO is fitted with connections to synthesiser 2. Test pads are also provided for connection to an external VCO.

An instrumentation interface with single-ended signal connections to differential baseband I/Q connections on the CMX983 is provided to allow easy connection of proprietary test equipment.

The board also incorporates all of the necessary power supply regulation facilities for operation from a dual +/-6V supply.

The board is fitted with a C-BUS connector allowing the EV9830 to be operated by connection to either of the two C-BUS ports on a CML PE0003 Universal Interface card used with the associated PC GUI software. A separate ‘host’ header is provided with both C-BUS and fast serial port connections.
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.