

EV9790

Evaluation Kit for the CMX979

The EV9790 is a demonstration and evaluation platform for the CMX979 Dual PLL and VCOs.

Features

- Demonstrates the CMX979 Fractional-N RF PLL, IF PLL and associated VCOs
- On board reference oscillator with options for an external source
- Divided LO outputs
- Powered by external 6.0V power supply

Supply Requirement

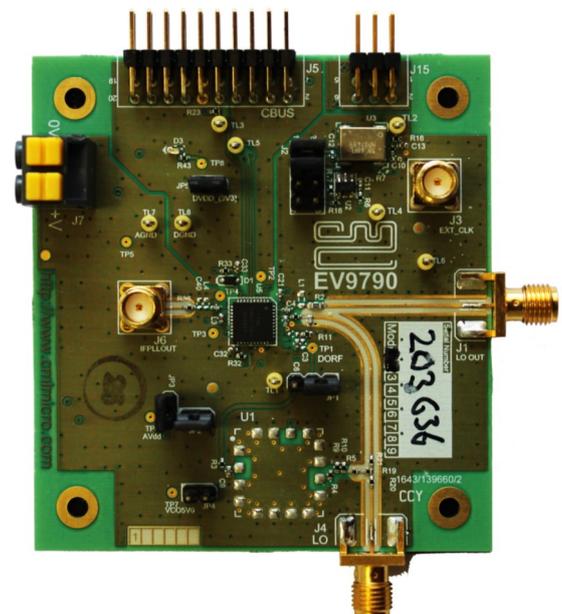
- 5.5 V to 8.0 V

For further information, please refer to the 'Design Resources' section on the CMX979 product page at cmlmicro.com

The CMX979 provides a 2700 to 3600 MHz 24-bit Fractional-N RF PLL with an internal RF VCO. A separate integer-N IF PLL and VCO covering 500 to 1000 MHz (as supplied) are also provided. An inductor value change can configure the IF VCO to cover other frequency ranges. Both VCO outputs can be routed via selectable on-chip frequency dividers.

The board includes all necessary voltage regulators and is operated from an external ~6V dc supply.

The EV9790 provides a 19.2MHz reference oscillator along with options for an additional frequency reference. The EV9790 interfaces to the PE0003 Universal Interface Controller to allow read and write access to the CMX979 registers. A graphical user interface is available for operational set-up as well as handling control scripts.



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