

CML Microcircuits (CML) is the leading authority in the design, manufacture and marketing of integrated circuits. Through many years' experience of designing both standard and full-custom products, CML excels in producing innovative solutions containing mixed signal, RF, analogue, memory, digital and DSP design. The information provided below is intended to keep you up to speed with all the new products released by CML.

### Latest CML Product News:

#### RF Building Block – IF/RF Quadrature Demodulator IC

The CMX970 offers exceptionally low power consumption and high performance over the operating range of 20 to 250 MHz. Designed to meet the challenging requirements of Wireless Data and Analogue/Digital PMR/LMR radio systems, this product builds on the classic superheterodyne receiver technique to realise the ultimate low power IF/RF Quadrature Demodulator. The differential outputs are ideal for direct connection to standard modem and interface ICs such as CML's CMX7163, CMX7164, CMX910 and CMX981.

##### CMX970 RF Building Block:

- Excellent phase/amplitude balance
- I/Q Bandwidth > 10MHz
- Low power consumption 3.0V to 3.6V
- Small RF optimised 16-pin VQFN package
- High performance and flexible



For more information, visit the CMX970 product overview page: [Click Here](#).

#### FirmCODEC® – Full Featured Analogue Front End for DSP/Microcontroller Based Systems

The CMX7861 FirmCODEC® is a full featured analogue front end for DSP/Microcontroller FPGA based systems. The device is a combination of codec, embedded signal processing and auxiliary system support functions, allowing simple interfacing between analogue and digital systems that together improve overall system performance, reduce development time and overall system cost. The CMX7861 utilises CML's proprietary FirmASIC® component technology that enables on-chip sub-systems to be configured by a Function Image™ data file.

##### CMX7861 Analogue Front End:

- I/Q Radio/RF Interface
- Worldwide compatibility (ETSI, FCC part 90, ARIB)
- Dual channel codecs with 'Smart' functions
- Two fully programmable digital filters



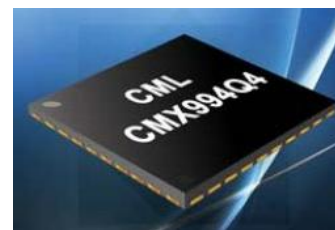
For more information, visit the CMX7861 product overview page: [Click Here](#).

#### CMX994 Direct Conversion Receiver

The CMX994 targets the next generation of multi-mode Software Defined Radios (SDR) for wireless data and two-way radio applications. Its design provides the optimum route for on-board integration, allowing a small RF receiver to be realised with a minimum of external components in both zero IF and low IF systems. Until recently, most radios have used the superheterodyne (Superhet) receiver, however enhancements in semiconductor technology have enabled the integration of DCRx, allowing it to become the technology of choice for radio receivers in many applications.

##### CMX994 Direct Conversion Receiver IC (DCRx):

- Highest integration for an RF Rx function
- 50MHz to 940MHz operating range \*Updated
- Analogue/digital multi-mode and SDR radio
- Ideally suited to multi-band, multi-channel bandwidth, SDR applications



For more information, visit the CMX994 product overview page: [Click Here](#).