CMX469A

1200/2400/4800 Baud FFSK Modem

The CMX469A is a CMOS LSI circuit which operates as a full-duplex 1200, 2400 or 4800 baud FFSK Modem. The mark and space frequencies are 1200/1800, 1200/2400 and 2400/4800Hz respectively. The device employs a common Xtal oscillator with a choice of two clock frequencies (1.008MHz or 4.032MHz).

Features

- Selectable Data Rates: 1200/2400/4800 Baud
- Full Duplex FFSK
- Rx and Tx Bandpass Filters
- Clock Recovery and Carrier Detect Facilities
- Pin Selectable Xtal/Clock Inputs: 1.008MHz or 4.032MHz
- Simple Control: No µP Required

Applications

- Data-Over-Radio
- PMR and Cellular Radio Signalling
- Automatic Vehicle Location (Differential GPS) Links
- Portable Data Terminals
- Personal/Cordless Telephone
- Industrial Control Signalling

On-chip circuitry is provided for Carrier Detect and Rx clock recovery and Rx, Tx and Carrier Detect paths contain a bandpass filter to ensure the provision of optimum signal conditions in the modem and the Tx modulation circuitry.

The CMX469A demonstrates a high sensitivity and good bit-error-rate under adverse signal conditions. The device requires few external components and is available in small outline plastic SOIC and TSSOP packages.

Supply Requirement

- 2.7 to 5.5V
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.