

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 μ P 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

Supply Requirement

- 2.7 to 5.5V

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.



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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