



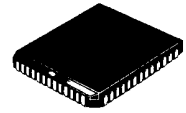
**MOTOROLA**

**MC68194**

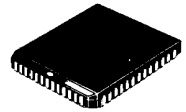
## Technical Summary Carrierband Modem (CBM)

The bipolar LSI MC68194 Carrierband Modem (CBM) when combined with the MC68824 Token Bus Controller provides an IEEE 802.4 single channel, phase-coherent carrierband Local Area Network (LAN) connection. The CBM performs the Physical Layer function including symbol encoding/decoding, signal transmission and reception, and physical management. Features include:

- Implements IEEE 802.4 single channel, phase-coherent Frequency Shift Keying (FSK) physical layer including receiver blanking.
- Provides physical layer management including local loopback mode, transmitter enable, and reset.
- Supports data rates from 1.0 to 10 Mbps. IEEE 802.4 standard uses 5.0 or 10 Mbps.
- Interfaces via standard serial interface to MC68824 token bus controller.
- Crystal controlled transmit clock.
- Recovery of clocked data through phase-locked loop.
- Meets IEEE 802.4 standard +4.0 dBmV to +10 dBmV receiver signal threshold window.
- RC controlled Jabber Inhibit Timer.
- Single +5.0 volt power supply.
- Available in 52-lead PLCC or 52-lead cerquad (same footprint as PLCC) packages.
- For more information see data sheet MC68194/D.



**FN SUFFIX  
PLCC  
CASE 778-02**



**FJ SUFFIX  
J-LEAD CERQUAD  
CASE 778B-01**

### PIN ASSIGNMENTS

