



**MOTOROLA**

*Product Preview*

**Single chip 300 baud modem**

The MC145444 is a silicon gate CMOS frequency shift keying (FSK) modem intended for use with tele-meter systems of remote control systems using the telephone network.

This device is compatible with CCITT V.21, and contains the entire circuit that provides a full duplex or half duplex 300 baud data communication over a pair of telephone lines.

This device also includes the DTMF generator and call progress tone detector (CPTD).

The differential line driver has a capability of driving 0 dBm into 600 loads with a single +5 V power supply.

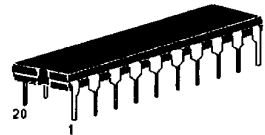
The transmit level is controlled by the programmable attenuator every 1 dB step.

These functions are controlled through the 3-wire serial interface.

- Capable of driving 0 dBm into a 600 Ω load
- DTMF generator on-chip
- Precise call progress detector on-chip
- A transmit attenuator programmable by a 1 dB step
- 3-wire serial interface
- Compatible with CCITT V.21
- 2100 Hz answer tone generator on-chip
- Analog loop back configuration for self test
- Simplex, half duplex, and full duplex operation.

**MC145444**

**SILICON MONOLITHIC  
INTEGRATED CIRCUIT**



P suffix  
Plastic package

**PIN ASSIGNMENT**

