



# MOTOROLA

## MC145429

### Advance Information

#### TELSET AUDIO INTERFACE

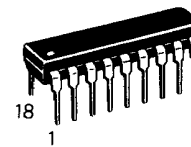
The MC145429 is a silicon-gate CMOS Telset Audio Interface IC intended for microcomputer controlled digital or analog telset applications. The device provides the interface between a codec/filter or analog speech network and the telset mouthpiece, earpiece, ringer/speaker amplifier, and an auxiliary input and output. The configuration of the device is programmed via a serial digital data port. Features provided on the device include:

- Independent Adjustment of Earpiece, Speaker, and Ringer Volume
- Transient Suppression Circuitry to Prevent Acoustic "Pops"
- Receive Low-Pass Filter for 8 kHz Attenuation
- Sixteen Possible Audio Configurations
- Power-Down Mode with Data Retention
- 20 dB Mouthpiece Input Gain
- Receive to Transmit Loopback Test Mode
- Provision for Auxiliary Input and Output
- Externally Adjustable Auxiliary Input Gain
- PCM Mono-circuit Compatible Power Supply Range
- Digital Output for Speaker Amplifier Control
- Versatile Logic Input Levels
- 18-Pin Package

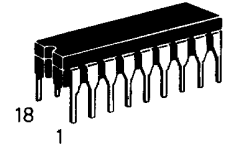
### CMOS

(LOW-POWER COMPLEMENTARY MOS)

### TELSET AUDIO INTERFACE



**P SUFFIX**  
PLASTIC PACKAGE  
CASE 707



**L SUFFIX**  
CERAMIC PACKAGE  
CASE 726

#### SIMPLIFIED BLOCK DIAGRAM

