

HD81905

V.22 bis/V.22 and V.26 bis Single Chip Modem

The HD81905 is a single chip CMOS LSI modem based on the ITU-T V.22 bis and V.26 bis standards. This LSI incorporates modulator, demodulator, transmission and reception filters, and a V.24 interface. By using this LSI, a modem system for use in farm banking terminal and data communications can be constructed easily.

Features

- ITU-T standard
- V.22 bis, V.22
- V.26 bis, V.23
- Full-duplex (2-wire)
- Half-duplex (2-wire)
- Transmission and reception filters
- Tone generation/detection
(Arbitrary frequency can be concurrently detected)
- DTMF generator
- Transmit output level (0 dB to -31 dB)
- Selection receiver sensitivity (on/off level) (0 dBm to -43 dBm)
- Three type of equalizer built in
 - Adaptive auto-equalizer
 - Subscriber line equalizer
 - Fixed delay equalizer (2 links)
- DTE serial interface (V.24)
- NCU control pins (3 inputs and 3 outputs)
- Loop test (V.54)
- Eye pattern generation signal output available
- Low power CMOS (350 mW typ)
- Wide operating temperature range (-20 to +75°C)
- Single +5 V power supply
- 80 pin plastic QFP (FP-80B)

Functions

- ITU-T standards (Data transfer speed)
 - V.22 bis: 2.4 k/1.2 kbps
 - V.22: 1.2 kbps
 - V.26 bis: 2.4 k/1.2 kbps
 - V.23: 1200/600 bps
- Addition of guard tone (1800 Hz/550 Hz)
- DTMF signal transmission
Level difference between higher and lower group frequency settable
- Transmission and detection of all tone types
2100 Hz (default), 1850 Hz (default),
1650 Hz (default), 1100 Hz (default),
400 Hz (default)