

HD81903

— HITACHI/ (LINEAR DEVICES) 68E D —

V.29, V.27ter, V.21 Single Chip MODEM

The HD81903 is a CMOS single chip MODEM LSI, suitable for G3FAX, JUST-PC and CAPTAIN.

This LSI, built in modulator, demodulator, transmitting/receiving filter, V.24 interface and etc., can construct a MODEM system for G3FAX and data communication easily.

In this LSI, GII and GI functions are cut from HD81900, added DTMF receiver and V.27ter short training function.

Features

- CCITT
- V.29, V.27ter, T.30, T.4
- V.21 (CH2)
- Half-Duplex (2-wire)
- V.21 Flag detection function
- TX/RX Filters
- Tone Generation/detection
(Arbitrary frequency can be concurrently detected)
- DTMF Generation
- DTMF Receiver
- Transmit output level (0 dB to -31 dB)
- Selection Receiver sensitivity (on/off level)
(0 dBm to -43 dBm)
- Equalization
 - Automatic adaptive
 - Compromise cable (Selectable)
 - Delay equalizer (NTT2 link)
- DTE interface
 - Parallel
 - Serial (V.24)
- I/O ports for NCU control (3 inputs, 3 outputs)
- Loop test
- EYE pattern generation signal
- Low power consumption (350 mW, Typical)
- Wide operating temperature range (-20 to +75°C)
- +5 V single power supply
- Package
 - 64 pin plastic shrink DIP (DP-64S)
 - 80 pin QFP (FP-80B)
 - 68 pin PLCC (CP-68)

Function

- CCITT (Data transfer speed)
 - V.29: 9600/7200 bps
 - V.27ter: 4800/2400 bps
 - T.30, T.4
- Training
 - V.27ter: Long/short
- DTMF transmission
- DTMF detection
- Tone transmission/detection
 - 2100 Hz (default)
 - 1850 Hz (default)
 - 1650 Hz (default)
 - 1100 Hz (default)
 - 462 Hz (default)
 - 2450 Hz (default)
 - 1800 Hz (default)
 - 400 Hz (default)
- Other
 - Receivable each frequency of 8 waves simultaneously

Ordering Information

Type No.	Package
HD81903PS	DP-64S
HD81903FS	FP-80B
HD81903CP	PLCC-68