

THOMSON SEMICONDUCTEURS

78C 06686 D
T-75-33-05
EFB7510

SINGLE CHIP ASYNCHRONOUS FSK MODEM

The EFB7510 is a single-chip asynchronous Frequency Shift Keying (FSK) voiceband modem.

Operating at rates up to 75, 150 or 1200 bits per second, it is compatible with the applicable Bell and CCITT recommended standards for 202 and V23 type modems.

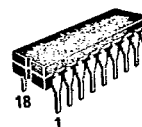
This device provides the essential RS-232/CCITT V.24, V.25 and V.54 terminal control signal at TTL levels.

- Monolithic device includes both transmit and receive filters
- Standard low cost crystal (3.579 MHz)
- $\pm 5\%$ power supplies : $+5\text{ V}$, -5 V
- Separate analog and digital ground pins reduce system noise problems
- Available clock for UART (19.200 Hz)
- Reference voltage internally generated, to avoid noise and supply drift
- Back channel included
- 1.200 bauds, half-duplex two-wire operation or full-duplex four-wire operation
- Fixed compromise line equalizer
- No external precision component needed
- Low power consumption : 100 mW typical
- Direct interface to the THOMSON SEMICONDUCTORS EF6850, UART.

CMOS

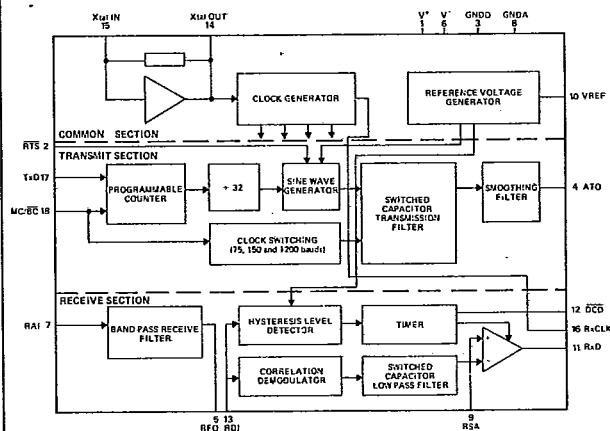
SINGLE CHIP
ASYNCHRONOUS
FSK MODEM

CASE CB-181



J SUFFIX
CERDIP PACKAGE
C SUFFIX
CERAMIC PACKAGE

BLOCK DIAGRAM



PIN ASSIGNMENT

V ⁺	1	18	MC/BC
RTS	2	17	TxD
GNDD	3	16	RxCCLK
AT0	4	15	Xtal IN
RFO	5	14	Xtal OUT
V ⁻	6	13	RDI
RAI	7	12	DCD
GNDA	8	11	RxD
RSA	9	10	VREF

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THOMSON
COMPONENTS

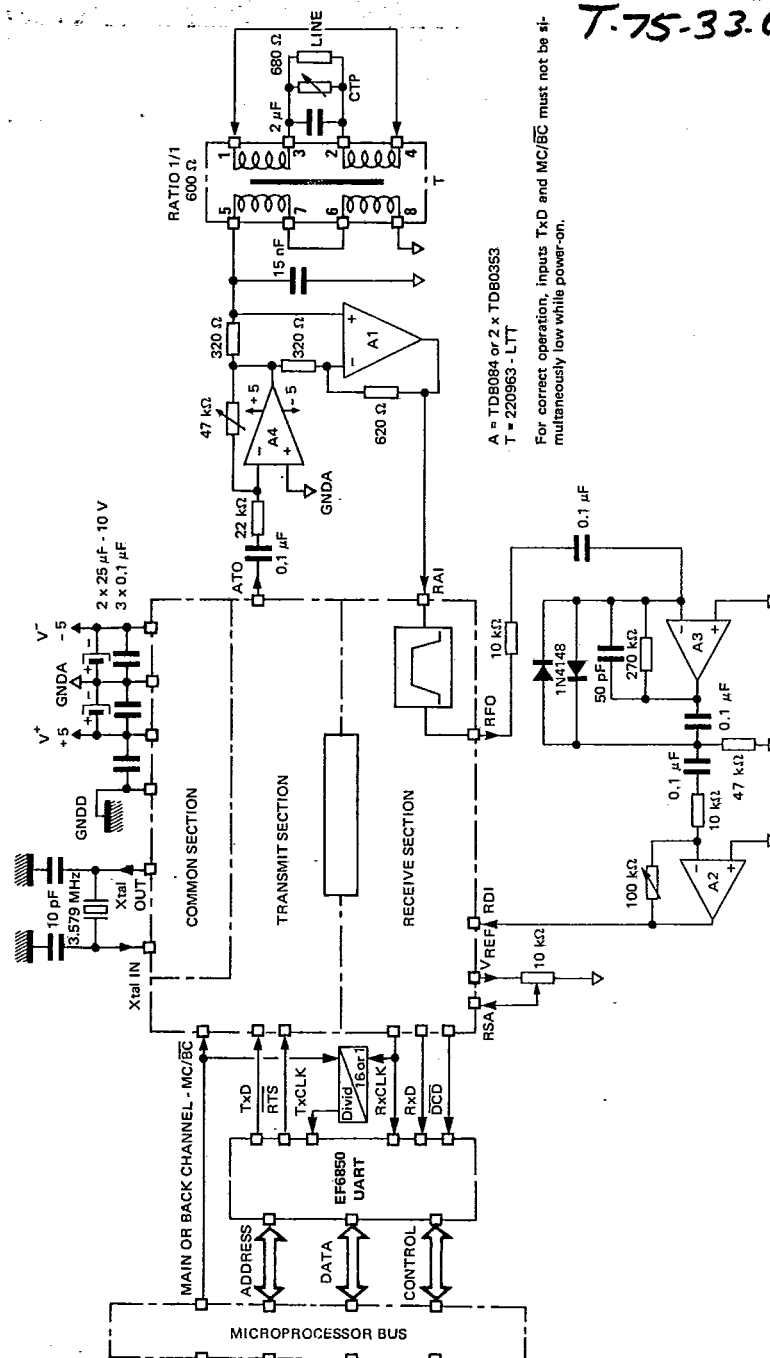
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EFB7510

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ANNEX II: TYPICAL APPLICATION OF EFB7510



These specifications are subject to change without notice.
Please inquire with our sales offices about the availability of the different packages.

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