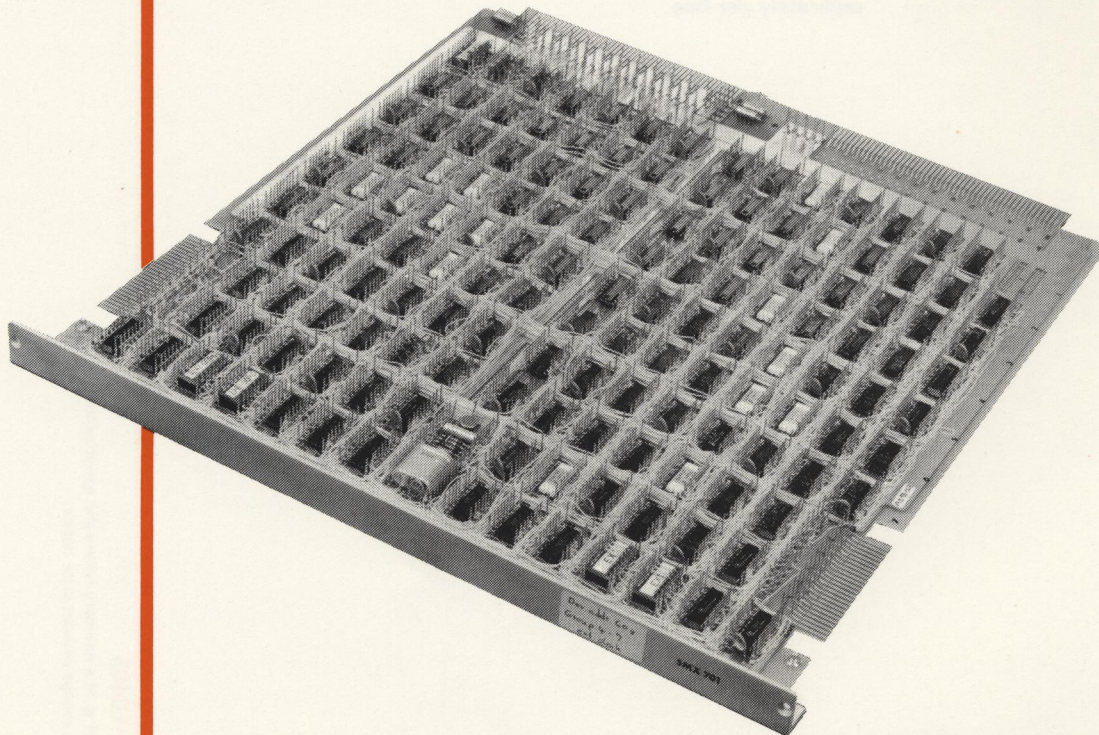# RC 3681

4-Line BSC Multiplexer

- SYNCHRONOUS TRANSMISSION

- UP TO 9600 BITS PER SECOND

- COMPLETE COMPATIBILITY WITH CCITT V.24 RECOMMENDATION

- FULL OR HALF DUPLEX

- EXPANDABLE TO 32 LINES

GENERAL

The RC 3681 BSC Multiplexer interfaces the RC 3600 System to any 4 synchronous half- or full duplex modems, according with CCITT V.24 recommendations at speeds up to 9600 bits per second.

The RC 3681 can be used for several communications protocols because of full software logics.

For direct connection the RC 3681 is equipped with a crystal controlled internal clock-source.

CHARACTERISTICS

The RC 3681 BSC multiplexer consists of four separate receivers and transmitters, both operate in byte burst mode, because of independent hardware buffers, each 64 bytes deep.

The Data Formats and Transmission Control are selected under full program control. The basic RC 3681 contains 4 lines and the system can be easily expanded to a maximum of 32 lines. Each line has separate Data Format, Transmission Speed and Line Control.

Independent clock-source is available for each channel, 1200 bps, 2400 bps, 4800 bps and 9600 bps.

SPECIFICATIONS (Per Channel)

Speed:	0 - 9600 bps External Source
	1200, 2400, 4800, 9600 Internal ($\pm$ 0.01 %)
Data format:	Serial synchronous, bit by bit
Byte length:	6, 7 or 8 bits, programmable
Transmission control:	Fully programmable
Signal levels:	As specified in CCITT V.28 Recommendation
Signal available:	Signal Ground (102)
	Transmitted Data (103)
	Received Data (104)
	Request to Send (105)
	Ready for Sending (106)
	Dataset Ready (107)
	Data Terminal Ready (108/2)
	Received Carrier (109)
	Transmitter Clock (114)
	Receiver Clock (115)
	Data Signaling Rate (111)
	Calling Indicator (125)
Standard connection:	F 81 12 m modem cable must be ordered separately per line.