RC 700
Microcomputer System

- **POWERFUL MICROPROCESSOR**

- **MEMORY CAPACITY OF 48 KB, EXPANDABLE TO 64 KB**

- **THE SYSTEM INCLUDES DISPLAY, KEYBOARD AND FLEXIBLE DISC DRIVE**

- **FROM SINGLE-USER TO MULTI-USER SYSTEM WITHIN ONE SYSTEM CONCEPT**

- **CCITT. V.24 INTERFACE**

- **SOPHISTICATED SOFTWARE-DESIGN**

GENERAL

The RC700 Microcomputer System within one system concept covers the range from stand-alone microcomputers to multi-user systems. The stand-alone system comprises processing unit, display, keyboard, communications port, and flexible disc drive. By means of the RC 791 Line Selector a number of RC700 Systems can share external devices such as printer, transmission line, and library diskette drive. Thus performing as a decentralized multi-user system. Single-user systems and decentralized multi-user systems can furthermore be supported by host facilities, for instance by interactive or batch connection to RC7000 or RC8000 Host Systems.
In addition to the relaible, professional microcomputer design, the user is provided with a sophisticated software-design comparable only to that of mainframe-users. Special considerations have as well been applied to the design of keyboard and display in order to facilitate a straightforward operation of the system – all to the benefit of the users.

FEATURES

PROCESSING UNIT. The system is based on a powerfull microprocessor, – the Z80,4MHZ processor. Included with the processor is a random access memory (RAM) with the capacity of 48 K bytes which can be expanded to 64 K bytes. Further a 2 K bytes read only memory (ROM) module for system use. All the RC700 System components are linked together via the internal system data bus. The flexible disc of the system is cabinet-mounted with the processing unit.
DISPLAY/KEYBOARD. The display is based on a 12-inch monitor with a display capacity of 1920 characters arranged in 24 lines of 80 characters each. Characters are built with a 5×7 dot matrix and generated by a semigraphic character generator. The detachable keyboard is micro-processor controlled. Hence it relieves the system processor of many trivial tasks. The keyboard lay-out includes cursor controlling keys.
FLEXIBLE DISC DRIVE. The RC700 System as an integral part of the system is supplied with a flexible disc drive operating as backing storage. Disc drives are available for mini- and maxi-diskettes providing on-line storage capacities up to 2 M bytes. The drives handle all standard diskettes conforming to IBM 3740/41/42/43 standard.
COMMUNICATIONS. An 8-bit parallel input/output port and two V.24 ports are applied for communications purposes. The V.24 ports are for general transmission use supporting line selector, printer, and data communications line.
SOFTWARE-TOOLS. The software facilities among which the user can choose in accordance with his requirements include:
– Structured Basic: COMAL 80
– PASCAL (UCSD-compatible)
– Macro assembler
– TTY emulating program
– Advanced catalog system (1981.04.01)
– Shared printer (1981.04.01)
– Multi-user access facility to library diskette (1981.04.01)
– Facility for file transfer to and from minicomputers and mainframes
  (1981.04.01)

DIMENSIONS

	Processing Unit including Flexible Disc Drive	Display	Keyboard
Height:	17 cm	27 cm	6.5 cm
Width:	38 cm	41 cm	33 cm
Depth:	40 cm	26 cm	19 cm
Weight:	16 kg	7.4 kg	2.1 kg