

RC45 IBM 3180/Multi-purpose Terminal

The RC45 IBM 3180/Multi-purpose Terminal is designed for communication with several computer systems.

The functions and communication mode are determined by the emulator software used.

RC45 offers simultaneous running of two emulator programs, facilitating simultaneous communication with an IBM 3270 application and a computer with character-oriented communication (ANSI X3.64, VT100), or simultaneous communication with two IBM 3270 applications.

The RC45 architecture is based on a free choice of emulator programs, which makes RC45 suited for multi-system communication.



Multi-purpose

The RC45 IBM 3180/ Multi-purpose Terminal is designed for communication with several different types of systems. The emulator programs are consequently stored in an attached RC890 cluster control unit or the RC39 multi-user computer, and loaded as required.

The same applies to the keyboard, which is equally suitable for IBM 3270 and VT100 communication due to the large number of programmable function keys.

Multi-session

The RC45 software is characterized by being structured and modular, consisting of a multi-program core, operating programs for related peripherals, and application programs handling the actual terminal emulation.

The RC45 IBM 3180/ Multi-purpose Terminal can run two simultaneous applications. The user can thus run an IBM 3270 session and an ANSI X3.64 (VT100) session simultaneously, or two simultaneous IBM 3270 sessions.

Main Characteristics

- Programmable terminal loading emulator programs from RC890 or RC39.
- Communication port for communication with the RC39 multi-user computer via RcCircuit and cluster control unit (RC890 or RC39 with RC3931 communication unit).
- V.24 communication port for asynchronous communication with ANSI X3.64 (VT100) protocol.
- Communication port for connection of local printer.

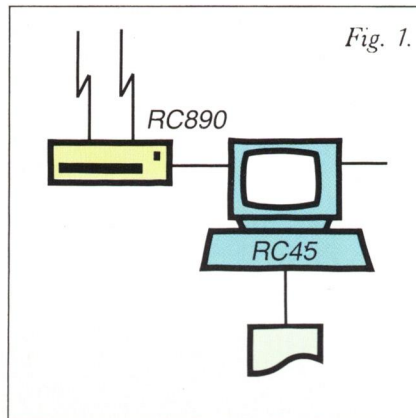


Fig. 1.

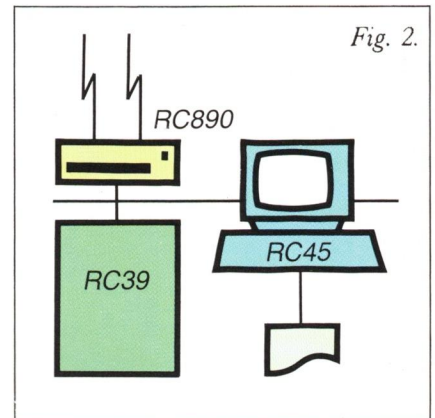


Fig. 2.

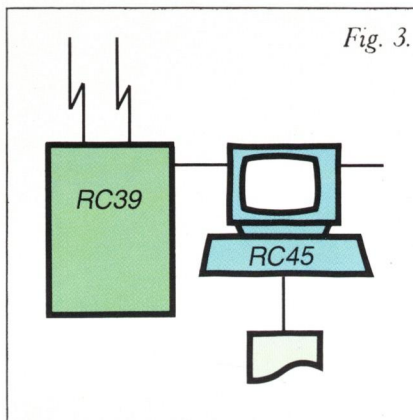


Fig. 3.

Fig. 1: Cluster incorporating RC45 and RC890. The RC45 terminal communicates via RC890, additionally asynchronous communication via the RC45 V.24 port is also possible.

Fig. 2: RC45 cluster incorporating RC890 and RC39. The RC45 terminals offer simultaneous communication with both.

Fig. 3: RC45 cluster with RC39 including communication unit.

Emulator Programs

The following programs are available:

- ANSI X3.64 (VT100) terminal program.
- RC851 emulator program.
- IBM 3180 emulator program.
- Combined IBM 3180 and ANSI X3.64 emulator program.
- Configuration program.

Cluster Control Unit

- A cluster of max. 32 terminals may share a cluster control unit facilitating:
 - V.24 BSC communication
 - X.21 BSC communication (via RC3800 Frontend)
 - V.24 SNA/SDLC communication
 - X.21 SNA/SDLC communication
- Access to several host computers via cluster control unit with dual host option.
- The SNA/SDLC software supports the LU-types 1, 2 and 3 (SCS printer, terminal and 3270 printer).
- The IBM 3278 model 2 A type of terminal is supported.
- The IBM 3268 type of printer is supported.

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Configuration Program

The RC45 IBM3180/Multi-purpose Terminal incorporates a configuration program for the setting of functional and operating parameters. The program includes editing facilities for the programmable function key text strings.

The ANSI X3.64 terminal program and the IBM 3180 emulator are configurable. The relevant parameters for the IBM 3180 emulator are:

- Nationality and related character set.
- Automatic screen time-out.
- Setting of keyboard click and alarm.
- Setting of screen intensity and contrast.
- Setting of cursor presentation.
- Printout format for the printer.
- Screen unit number.
- Printer unit number.
- Unit number for printer (local printout).
- Check of input in numeric fields.
- Choice of magnetic card reader mode.

Setup Mode

The loaded emulator programs each incorporate a built-in setup mode function. The IBM 3180 emulator program incorporates the following adjustment facilities:

- Screen intensity and contrast.
- Keyboard click and alarm.
- Cursor presentation.
- Screen time-out ON/OFF.
- Compact printout.
- Supervision of cursor position and buffer contents (reveal mode).
- Suppression of status information in status line.
- Selection of printer for local printout.



ANSI X3.64 Terminal Program

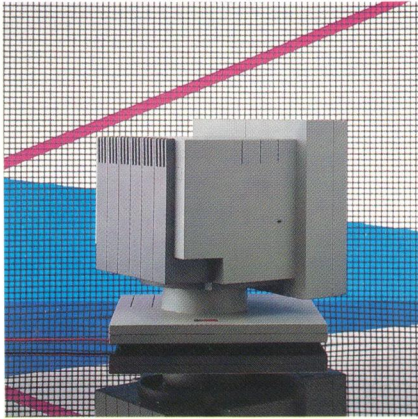
Reading of the ANSI X3.64 terminal program provides the RC45 terminal with the same functionality as the RC45 ANSI X3.64 terminal, described in a separate data sheet.

The main characteristics are:

- 7 or 8 bit character set.
- Character generator featuring 256 characters including semi-graphic characters.
- User friendly typing of letters with accents.
- Full duplex communication with possibility of local echo, either via ReCircuit to RC39, or via the V.24 port to other host computers.
- Extremely high degree of VT100 compatibility.

RC851 Emulator Program

The RC45 IBM 3180/Multi-purpose Terminal may read in an RC851 terminal program suitable for communication with RC8000 computers.



IBM 3180 Emulator Program

The IBM 3180 emulator program enables the user to run one or two simultaneous IBM 3270 sessions. The screen features 25 lines of 80 characters, corresponding to IBM 3278 model 2A.

Extended highlighting is not implemented.

USM-function is included.

8 additional PA-keys are included.

Line 25 is reserved for status information about screen, printer, ID-card reader and cluster control unit.

- Access to attached printers from host computer.
- Routing of local copy of screen image to any printer in the cluster.
- Connection of ID-card reader with optional processing according to IBM 3277, IBM 3278 or Alfaskop system 37 specifications.
- 24 PF-keys and 10 PA-keys.
- The 24 PF-keys are programmable.
- Excellent screen editing facilities including, among other things, insert and delete line, and text string copying.
- Printout of statistics of communication via RcCircuit.

Applications

The RC45 IBM 3180/ Multi-purpose Terminal is especially applicable for communication with several different types of systems or for simultaneous communication with several systems.

Options

RC4531 is a lock that can be mounted in the keyboard.

RC4532 is an ID-card reader designed for use with the IBM 3180 emulator program.

Models

The RC45 IBM 3180/ Multi-purpose Terminal incorporates communication ports for RcCircuit and V.24 communication, and Centronics parallel.

The RC45 IBM 3180/ Multi-purpose Terminal comes in two versions: amber (negative screen, amber characters on dark background) or paper white (positive screen, black characters on white background).

The amber screen features 80 or 132 characters per line (optional) when running the ANSI X3.64 terminal program.