

**5281 DATA STATION****Purpose**

A single, tabletop, auxiliary keyboard/display for use in the 5280 Distributed Data System. Attaches to the 5285 Programmable Data Station, the 5286 Dual Programmable Data Station or the 5288 Programmable Control Unit. Diskette storage capability is available and is determined by model number.

Models:

| MODEL | DISKETTE | |
|-------|------------------|-------------|
| | NUMBER OF DRIVES | |
| | Diskette 1 | Diskette 2D |
| Z00 | 0 | 0 |
| Z01 | 1 | 0 |
| Z02 | 2 | 0 |
| Z05 | 0 | 1 |
| Z06 | 1 | 1 |
| Z10 | 0 | 2 |

Model Changes: Field Installable.

Highlights

- Functions as an independent data station.
- Attaches via cable(s) to a 5285 Programmable Data Station, a 5286 Dual Programmable Data Station or a 5288 Programmable Control Unit at a distance of up to 61m (200 ft).
- Obtains control, logic and main storage from the attaching 5285, 5286 or 5288. Each keyboard/display in a 5280 system operates independently and has identical access to system resources.
- Display sizes of 480, 960 and 1920 characters are available. Movable keyboard has palm rest for operator efficiency.
- Diskette storage capacity of .25M bytes to 2.4M bytes is available.

Display: Display sizes available are: 480 characters (6 lines of 80 characters), 960 characters (12 lines of 80 characters) and 1920 characters (24 lines of 80 characters). The display size is determined by the auxiliary data station attachment feature on the controlling device to which the 5281 is attached. See M5285, M5286 or M5288 "Special Features".

Display characters are presented within an 8x16 dot matrix. The standard, upper/lower case, 94-character EBCDIC character set, 94-character ASCII character set and the 185-character Multinational Character Set are included (see Type Catalog). The character set is user-selectable.

Extended highlighting provides screen attributes such as reverse image, high intensity, blink, underline, nondisplay and column separator. Screen attributes are under program control and can be applied on a field basis. Brightness and contrast controls are provided to meet individual requirements.

Keyboard: A choice of 3 keyboard types provide input flexibility to meet individual user requirements: data entry, data entry with proof arrangement and typewriter (see "Special Features" below). See Type Catalog for keyboard layout. Each keyboard has cursor movement keys, special function keys, field exit keys and data keys (alphabetic and numeric). All data keys are typamatic. The keyboard is movable and has a palm rest for operator comfort.

The keyboards contain only a subset of the characters in the Multinational Character Set. When the Multinational Character

Set is used, the additional characters may be entered via multiple key sequence.

Typewriter keyboards provide for direct entry of upper and lowercase characters. Data entry keyboards provide for direct entry of uppercase only. Lowercase characters may be entered via multiple key sequence.

Diskette: Two types of compact diskette drives are available for the 5281: a diskette drive which can read/write IBM diskette 1 and a diskette drive which can read/write IBM diskette 1, 2 and 2D. The number and types of drives are determined by 5281 model number. See M5285, M5286 or M5288 for diskette drive characteristics, capacities, and diskette data exchange information. A cable is required, see "Accessories" below.

Security: A nondisplay input mode allows data to be entered from the keyboard without being displayed on the screen. A security keylock (special feature on the 5285, 5286 and 5288) prevents keyboard entry or display of data, and on a communicating 5285 or 5286 system, prevents initiation of communications. A Magnetic Stripe Reader (special feature) is available which may be used to enter user identification. This allows user program routines to audit and control operator access to data.

Customer Set-Up (CSU)

The 5281 is designated Customer Set-Up, and offers customers ease of setup and relocation flexibility. The Customer Set-Up Allowance is two days. For additional information on CSU, refer to the General Information (GI) section of the sales manual. One copy of *IBM 5280 User's Setup Procedures* (availability to be announced in a future PRL), is included with each 5281.

Customer Responsibility

The customer is responsible for:

- Adequate site, system and other vendor preparation.
- Providing a desk, counter or tabletop to support the 5281.
- Receipt, unpacking and placement of the 5281.
- Installation and maintenance of signal cables and associated parts for attaching the 5281 to a 5285, 5286 or 5288.
- Physical setup, switch setting and checkout in accordance with instructions supplied by IBM.
- Using and following the 5280 problem determination procedures prior to calling for IBM service.
- Relocation of the 5281 if required, to allow IBM service access.
- Notifying IBM of intent to relocate and following IBM instructions for relocation of the 5281.
- Disconnecting, packing and removal to the customer's shipping dock at the time of discontinuance. Removal instructions and packing materials (if required) will be ordered by the Branch Office.
- When adding a 5281 to a 5285, 5286 or 5288, the customer may have to modify the system configuration specifications. See *IBM 5280 System Control Programming Reference/Operation Manual* (availability to be announced in a future PRL).

Publications

IBM 5280 General Information, GA21-9350 and *IBM 5280 Planning and Site Preparation Guide*, GA21-9351.

**Supplies**

For IBM diskettes and magnetically striped and encoded identification cards, see *IRD Sales Manual*.

Prerequisites: The 5281 requires a 5285, 5286 or 5288 with appropriate auxiliary data station attachment (special feature). A cable is required. If the 5281 contains 1 or 2 diskette drives, the 5285, 5286 or 5288 requires an appropriate Remote Diskette Drive Attachment (special feature). See M5285, M5286 or M5288. *An additional cable is required if the 5281 contains 1 or 2 diskette drives.* See "Accessories" below.

Specify

- 1 Voltage (115V AC, 1-Phase, 60 Hz): #9881 for a standard nonlocking plug (uses customer standard type receptacle) or #9880 for a locking plug (requires customer locking type receptacle).
- 2 A keyboard must be selected (see "Special Features").
- 3 Color: Pearl White only (no specify required).
- 4 Cables: See "Accessories" for 5281 cable information and ordering instructions. Specify: #9050 if cable is ordered from IBM, #9055 if cable is ordered from another source.

Prices

See price list.

Purchase Considerations

- 1 The upgrade purchase prices for model changes may be greater than the purchase price differentials. The customer should carefully evaluate his future requirements when purchasing a system.
- 2 Replaced parts from any model change become the property of IBM.
- 3 Replaced parts from any Special Feature installation or removal remain the property of the customer.

NOTES

- 1 Device Attachments: Appropriate special features are required to attach auxiliary data stations (5281, 5282) and some I/O units to a 5285, 5286 or 5288 ... see M5285, M5286 or M5288 "Special Features."
- 2 For physical planning information, see *IBM 5280 Planning and Site Preparation Guide*, GA21-9351.

Special Features

Keyboard (#4600, #4601, #4602, #4603): One of the following must be selected.

#4600: 83-key keyboard with the EBCDIC character set, typewriter-like layout, movable, with 49 alphameric keys, 24 function keys and 10-key numeric pad.

#4601: 66-key data entry style keyboard, movable, with 36 alphameric keys and 30 function keys.

#4602: 66-key data entry style keyboard with proof arrangement, movable, with 36 alphameric keys and 30 function keys. The numeric keys are arranged similar to those of an adding machine.

#4603: 83-key keyboard with ASCII character set, typewriter-like layout, movable, with 49 alphameric keys, 24 function keys and 10-key numeric pad.

Maximum: One of the above. **Field Installable:** Yes.

Magnetic Stripe Reader (#4950): Provides the capability of reading numeric encoded information from a magnetic stripe on a wide range of credit cards, identification cards and documents. The magnetic stripe may be encoded with up to 128 ABA numeric characters, including control characters. This feature enhances system data security by providing the ability to read an operator identification card without being displayed. See *IRD Sales Manual* for magnetically striped and encoded identification cards. **Limitation:** Valid for numeric-only data. **Prerequisite:** The 5285, 5286 or 5288 requires a Magnetic Stripe Reader Adapter/Elapsed Time Counter (special feature). **Maximum:** One. **Field Installable:** Yes.

Accessories

Cables: Cables and/or associated parts to attach the 5281 to a 5285, 5286 or 5288 may be purchased from IBM or a customer-selected source. For cable specifications and assembly procedures, see *IBM 5280 Cable Assembly Manual* (availability to be announced in a future PRL). The customer is responsible for the installation and maintenance of these cables and their associated parts. Cable ship date should be scheduled so that cabling precedes the 5281 by at least four weeks. Cables and parts which may be purchased from IBM are shown below. Order via MSORDER (Category = Bulk Cable) on AAS. Specify bulk number, cable assembly number or part number as appropriate. Allow a lead time of nine weeks.

Data Station Cable: Required to attach the 5281 to a 5285, 5286 or 5288.

Bulk #7364108 Data Station Wire—order must specify the desired length. Maximum length is 61m (200 ft). Data Station Wire and one Wire Connector Kit are required for each attachment cable.

Part #4177800 Wire Connector Kit—includes two connectors and associated hardware. One connector kit and Data Station Wire are required for each attachment cable.

Assembly #7364212 Data Station Cable Assembly—includes a connector kit (two connectors) attached to bulk wire. The required length of wire must be specified on the order. Maximum length is 61m (200 ft).

Diskette Drive Cable: A single cable is required to attach either one or two diskette drives housed within the 5281 to a 5285, 5286 or 5288.

Bulk #7364109 Diskette Drive Wire—order must specify the desired length. Maximum length is 61m (200 ft). Diskette Drive Wire and one Wire Connector Kit are required for each attachment cable.

Part #4177800 Wire Connector Kit—includes two connectors and associated hardware. One connector kit and Diskette Drive Wire are required for each attachment cable.

Assembly #7364208 Diskette Drive Cable Assembly—includes a connector kit (two connectors) attached to bulk wire. The required length of wire must be specified on the order. Maximum length is 61m (200 ft).



MES Orders

For this machine, the "Ship-To" portion of the MES is to be completed exactly as follows:

IBM Customer Engineer
c/o (Name of Company)
(Street Address)
(City, State, Zip Code)

On MES form, check "yes" under "IBM Confidential Documents Required."