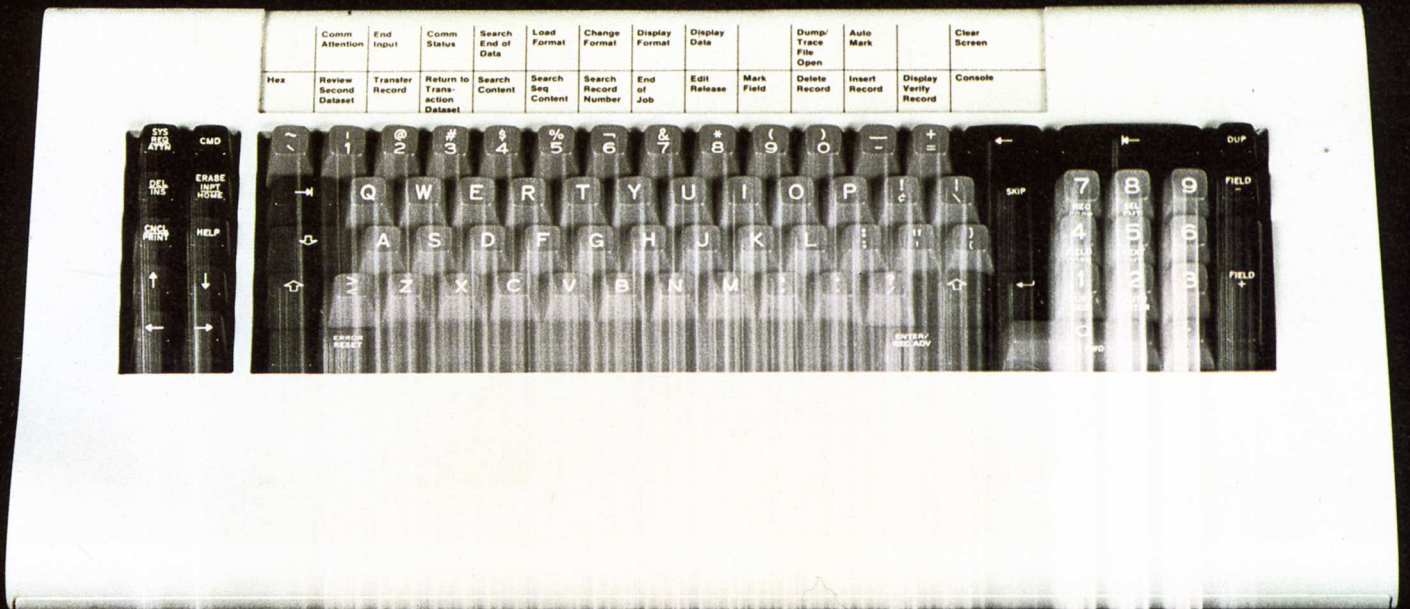
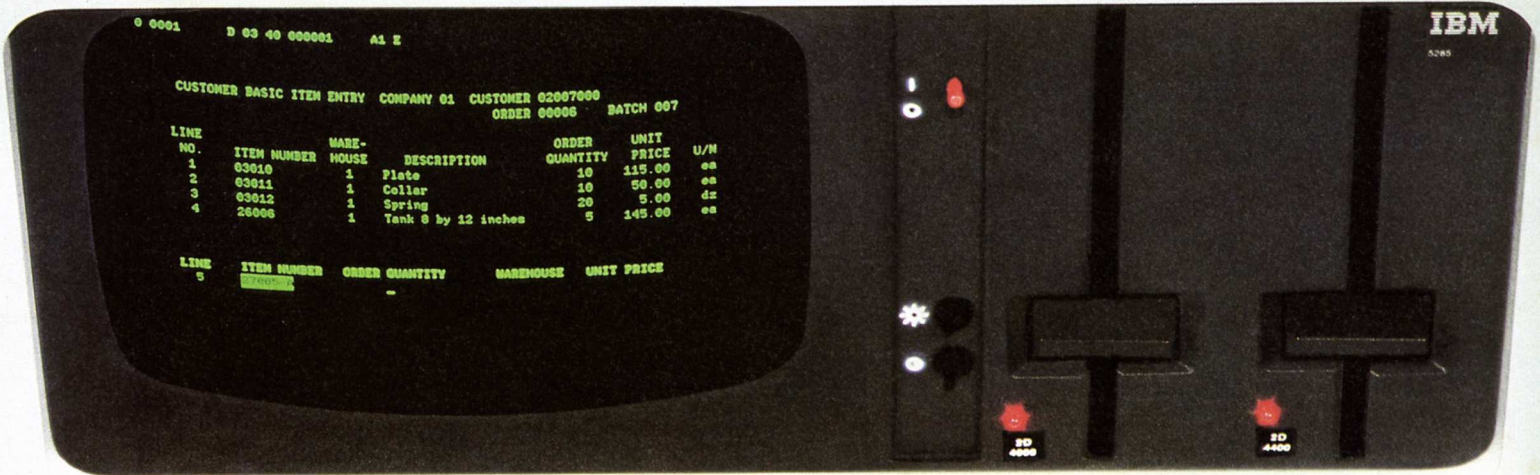


IBM 5280 Distributed Data System



Low-cost, high-function
source data capture



Combining economy and function



In today's business environment, the effective and efficient communication of information is necessary. And yet, data capture procedures can be costly, error prone and subject to delays.

Now there's a new family of modular IBM products that lets you bring "computer intelligence" to places where important data is generated—at the locations where your people understand the data and how it's used.

With the IBM 5280 Distributed Data System, you can economically install intelligent data stations and printers—in departments, offices, factories and warehouses—in the same building, across town or across the country. Any location where data has to be collected, validated, edited or even printed on the spot—then transmitted to the host computer.

Here are some of the advantages the IBM 5280 can bring to the effective and efficient communication of information:

- Supports multiple work stations and multiple applications concurrently
- Allows diskette-stored information to be hand-carried, mailed or transmitted via low-cost batch communications to a host computer or other IBM systems
- Provides for inquiry to the host—and is interactive
- Provides a range of hardware products—including programmable controllers, keyboard/displays, plus line and character printers—to meet a variety of user requirements
- Offers IBM software—including System Control Programming, DE/RPG (Data Entry with RPG subroutines) and COBOL programming languages, an Assembler language, sort/merge facility, plus processing and communications utilities—to easily design and implement a system to meet specific needs
- Provides key entry utility for the simple installation of transcriptive key entry applications... and more.

Your people can utilize ease-of-use features and advanced functions to help increase productivity, reduce the turnaround time in getting data processed—and improve accuracy and control.

A look at the system

The IBM 5280 is a family of products that can be designed into a system with the right memory size, diskette storage capacity, display, printer and communications capabilities needed to meet individual requirements.

Programmable controllers. Two different table-top keyboard/display stations—plus a floor-standing control unit—provide the ability to combine function and capacity to match your needs.

These units utilize multiple microprocessors and support the concurrent execution of two or more programs. They control the entry, display, storage, processing, printing and data communications functions of the system. They have computer logic capabilities—so they can check, validate and edit data before it gets to your host computer or other business locations. They can overlap printing and keying—and can function under control of user-written programs.

Data stations. Single as well as dual keyboard/display units are available—each containing up to two diskette drives for storing data. The dual data station is especially useful for high-production transcriptive key entry environments. Two operators can key onto their own diskettes at the same time—and both have access to their own data displays. IBM 5280 data stations are attached to programmable controllers, and provide the same functions in a small clustered environment.

Printers. Table-top models offer high-quality printing at speeds of 40, 80 or 120 characters per second.

Floor-standing models offer condensed printing for correspondence-size reports and extension of standard print line length up to 198 horizontal characters. These printers can handle high-speed, high-production requirements at 280, 400, 490 or 560 lines per minute.

All printers have upper and lower case print capability with no speed degradation.

Main storage. IBM 5280 programmable control units contain an integrated processor with high-speed memory for storing the programs needed to enter and process data. Table-top units come with 32K, 48K or 64K characters of main storage. Floor-standing models offer memory capabilities from 32K to 160K characters of information.

Diskette storage. The 5280 utilizes the IBM diskette for program and data storage. A table-top programmable work station can support up to 4.8 million bytes of online diskette storage. The floor-standing unit can support up to 9.6 million bytes of online diskette storage.

The diskettes used in the IBM 5280 are compatible with diskettes used in many other IBM computer systems. As a result, information can be exchanged offline between systems in your organization by either mailing or hand-carrying the diskettes.

Communications capabilities. The IBM 5280 offers the capability to communicate with the IBM 3740, the IBM System/3, System/32, System/34, 5260, Series/1 or another 5280 via Binary Synchronous Communications (BSC). Plus: the IBM System/360, System/370, 3031, 3032, 3033 and 4341 via synchronous data link control (SDLC) or binary synchronous communications (BSC).

Users have the ability to transmit and receive information over standard telephone lines. An auto-answer capability lets the IBM 5280 receive a station-to-station telephone call and transmit or receive data. With this capability, your communications costs can be kept to a minimum.

Data security. Information in the system can be made secure at any location in your organization—with keylocks and magnetic stripe card readers providing for controlled access to the system.



One system, multiple uses

The IBM 5280 Distributed Data System has a wide spectrum of uses.

For example, you can use the IBM 5280 as a single station system. Or, as a clustered intelligent terminal system in a distributed processing environment. The 5280 can be programmed to perform extensive data edits—plus local and host system file look-up functions—during the data entry operation at both local and remote locations.

Users also have the ability to handle a broad range of transaction processing tasks—carrying an application through to its final stage. In order entry, for example, the 5280 can be programmed to validate orders as they are keyed—as well as prepare picking slips and invoices.

In addition, the 5280 can be used in local and remote transcriptive key entry environments for transcribing data into computer readable form. A language facility provides a full-function, advanced-editing key entry capability—without user programming. This language allows data entry under format control, and offers extensive edit and validation functions to help operators capture information more efficiently, more accurately—before sending it to the host computer.

There's more. You can also use the IBM 5280 as a remote batch or remote job entry (RJE) terminal system at outlying locations in the organization to capture and transmit data for processing—as well as receive processed data back from the host computer for on-site inquiry, processing, printing and/or storage.

Distributed processing— at a reasonable cost

The concept of distributed processing is not new. Simply stated, it is a strategy that seeks to provide better business results by decentralizing some part of an organization's data processing operations.

Distributed processing with the IBM 5280 offers new opportunities to economically distribute certain data entry and processing functions to local and remote sites—to help increase productivity while reducing operating costs.

With the 5280 system, you can efficiently place a single station or multiple stations in the accounting department to record time card entries and print exception reports. In a remote sales office to enter orders and verify customer information. Or in a warehouse to key up-to-the-minute inventory receipts and print picking lists.

Distributed processing with the IBM 5280 gives you an economical way to:

- Develop a communications network in conjunction with your existing system by placing equipment and computer intelligence at local and outlying locations for intelligent data entry, standalone computation, application development and special information storage
- Move day-to-day control of data entry closer to the source—while maintaining management control and interchange of information
- Improve the quality and timeliness of input generated at local and remote locations... and much more.



**Fewer errors,
improved productivity**

With the IBM 5280, data is entered via easy-to-use keyboard/display stations. Information can be displayed to assist the operator.

"Menu" screens allow the operator to easily select jobs to be performed. And data entry screens can be formatted to resemble standard operating forms for quick and efficient data entry.

Programmed edits and checks can reduce the effort needed to locate and correct mistakes. When an error is detected, the keyboard locks out additional entries until the error is corrected.

Errors can be brought to the attention of the operator—by blinking the information found to be in error, for example, or reversing the image so it stands out.

The result: Costly errors can be corrected before they are passed on and repeated. This enhances clerical productivity and reduces the time required to get accurate data into your computer.

**All kinds of information—
for all who need it**

IBM 5280 users can retain data files that are of most concern and use to them—even while forwarding to the host computer either full or summary data from the local master files.

This means that end-user personnel can have access to decision-making business data that is generated and stored at the source of entry. And can display this data as well as have a report printed on demand right in their offices.

With the 5280, more than one operator can have access to the same data files. Users can also have access to information in the host computer—thanks to online inquiry at the display station.





Getting the most out of your system

Summing it up

All programs offered with the IBM 5280 system are recorded on IBM diskettes. And are designed with the emphasis on productivity and ease of use.

The System Control Programming (SCP), for example, provides facilities to start the IBM 5280 and put it to efficient use. This software makes it easy to tailor the 5280 to individual user requirements.

The IBM 5280 is also supported by a host compiled COBOL and a 5280 compiled DE/RPG language to help make the system easy to implement—and provide simple access to the extensive editing and programming capabilities of the IBM 5280.

Additional programming support includes an Assembler language. This software provides a growth path for users of the IBM 3741 Programmable Work Station Models 3 and 4.

Other programs help perform functions such as sort/merge, data entering, listing, copying and printing.

In addition, a series of communications utilities are available for customizing communications job functions and simplifying the transfer of data over communications lines. With these utility programs, the communications flexibility of the IBM 5280 is placed in the software—where it is easily adaptable to specific needs—and not fixed in the hardware of the system. This program package contains various communications access methods, which handle line protocol. Plus: a choice of communications utility programs, or user-written application programs, to handle data transfer.

With the high-function, low-cost IBM 5280 Distributed Data System, you and your organization have new opportunities to:

- Decentralize data capture—putting the operation in the hands of the people who are familiar with the information
- Solve the costly problem of how to get data from the hands of your people into the host computer quickly and efficiently
- Speed and simplify data entry—increasing operator productivity, streamlining paperwork and decreasing costs
- Generate more accurate and “clean” data from source documents at their point of origin
- Adapt a data entry system to specific user applications—as well as offer end-users a modular system to grow with and meet changing requirements
- Establish an economical distributed processing network that puts the capabilities of source data entry and computer intelligence at local and remote locations to create, maintain and use data files at the end-user level... and much more.

See your IBM General Systems marketing representative. Ask about the training and education courses—plus IBM service support provided for the 5280 system users. Find out how you can purchase or lease the IBM 5280 to improve as well as expand the sources of productivity in your organization.



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