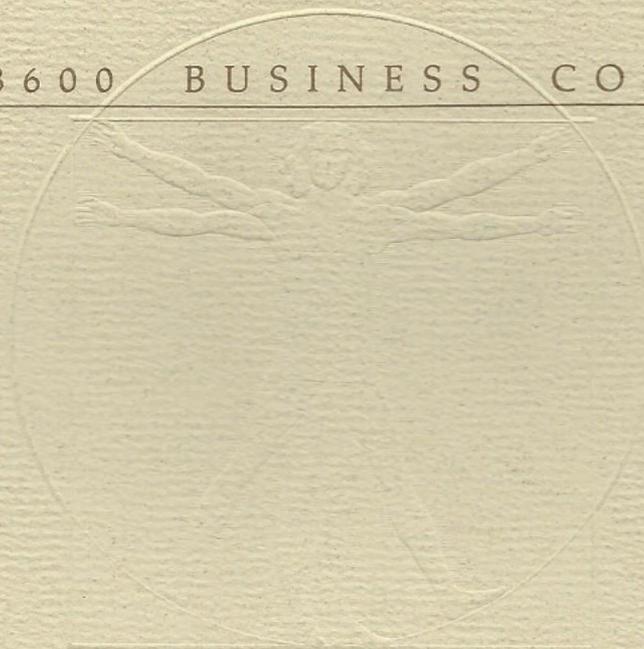*Power and Performance in a Product*
Engineered for People
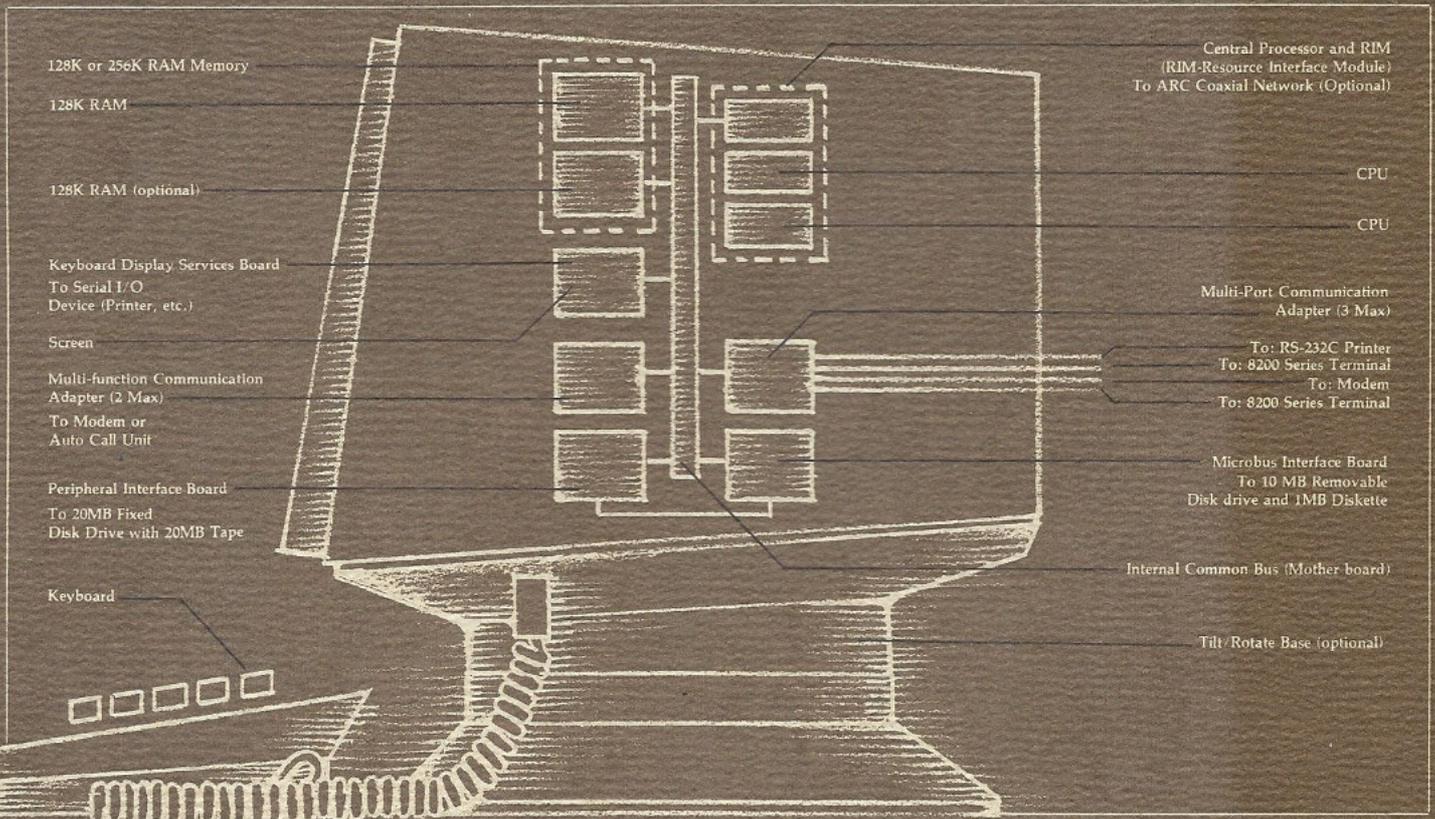
THE 8600 BUSINESS COMPUTER

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The cover illustration, an embossing of Leonardo Da Vinci's "The Rule of Proportions," is a symbolic expression of the ergonomic design principles applied to the Datapoint 8600 Business Computer. Careful attention to the relationships between man and machine during the development of the 8600 has resulted in a computer uniquely suited to today's office environment.

For all its technological innovation and complexity, perhaps the key design feature of the 8600 Business Computer lies in the strict relationship of structure to function. This principle is first obvious in the external design, which is compact and user-oriented. But inside the 8600, too, this relationship is most carefully applied. As a result, all elements work together to satisfy specific needs.

Datapoint's® 8600 Business Computers mean powerful yet economical business applications processing. Memory of 128K or 256K. A disk/cartridge tape system providing up to 100MB of storage. Built-in local networking with an internal chip. A high-speed central processor. Fast and easy office applications capabilities. New user-oriented design. All this and more...for all your dispersed processing needs.

- 128K or 25eK RAM Memory
- 128K RAM
- 128K RAM (optional)
- Keyboard Display Services Board
- To Serial I/O Device (Printer, etc.)
- Screen
- Multi-function Communication Adapter (2 Max)
- To Modem or Auto Call Unit
- Peripheral Interface Board
- To 20MB Fixed Disk Drive with 20MB Tape
- Keyboard

- Central Processor and RIM (RIM-Resource Interface Module) To ARC Coaxial Network (Optional)
- CPU
- CPU
- Multi-Port Communication Adapter (3 Max)
- To: RS-232C Printer
- To: 8200 Series Terminal
- To: Modem
- To: 8200 Series Terminal
- Microbus Interface Board To 10 MB Removable Disk drive and 1MB Diskette
- Internal Common Bus (Mother-board)
- Tilt/Rotate Base (optional)

Engineered for Productivity

Powerful, Versatile Architectures

The 8600 Business Computer offers 128K or 256K of memory in the processor and a new 20MB disk/tape system for storage expandable to 100MB in 20MB or 40MB increments. Whether you configure the 8600 as a powerful standalone system or as an ARC™ local network processor, it supports inexpensive workstations in either environment. High throughput rates make the 8600 ideal for office operations like word processing, and the modular internal architecture means you can add memory and capabilities easily and economically.

Local Networking Built In

When you put 8600 Business Computers on Datapoint's Attached Resource Computer® (ARC) local network, you get cost-effective dispersed processing where you need it most — on the desktop. You get the virtually unlimited system growth, flexibility, and capabilities of the proven ARC local network. Plus the speed and economy of 8600's acting as either applications or data resource processors. And the hook-up is simple: located on a chip in the central processing unit of every 8600 is the exclusive Resource Interface Module (RIM), which allows the processor to be easily connected to ARC. The results? Compatible, cost-effective dispersed processing.

Shared Resources And Total Office Applications

Since it is specifically designed to maximize the capabilities and performance of the RMS™ Operating System, the combination of the 8600 and RMS is a truly effective one. You get full multi-processing shared logic capabilities for word processing, data processing, and electronic message service — and you simply hook on inexpensive 8200 series workstations for simultaneous operations of all these functions. You can use 8600's in an existing Datapoint DOS system as well, making the conversion to RMS as your needs grow.
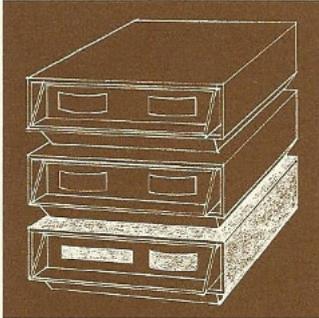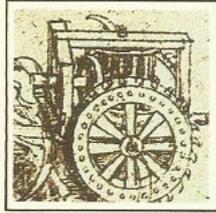

Ergonomic Design

The 8600's "human science engineering" features make it easy to use and space-efficient for modern office environments. Streamlined housing incorporates a large amber screen with large, readable characters and adjustable brightness levels. A two-speed, thermostatically-controlled fan dramatically reduces machine noise. And the detached keyboard and optional tilt/rotate base allow you to position the equipment at the heights and angles most comfortable to you. These features combine to heighten productivity by making the 8600 easier, more comfortable to operate.

Compact, quiet, and user-oriented, 8600's and companion 8220 workstations provide productive, cost efficient dispersed processing for today's electronic office.

20MB Disk Storage and Tape Backup

Sealed, High-Density Storage Extendable To 100MB

Residing in compact desktop housings, extension units in increments of 20MB or 40MB allow the 9301 Disk System to store up to 100MB on its special, thin-film 5-1/4 inch platters — and the cartridge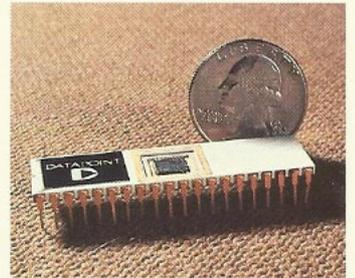 tape backup is built right in. The disk unit is sealed against the environment, with a sophisticated error correction code providing further data protection and reliability.

Fast, Convenient Back-Up With Sophisticated Tape Drive

Integrated into the 9301's compact housing is an advanced tape drive capable of storing over 20MB of data on a single tape cartridge. An entire disk unit can be backed up in only about 12 minutes, without involvement from the 8600 processor or operator. The tape drive uses an exclusive "signal-seeking" ceramic read head that self-aligns to each tape, allowing the tapes to be interchanged among drives. This tape backup reserves the full capacity of the disk for user storage, while providing full data protection from hardware, software, or operator error.
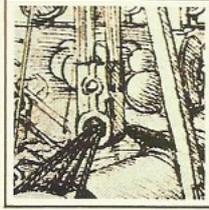
Internal Chips Provide Convenient Local Networking Capability and Fast, Reliable Data Transfer

Built directly into the 8600's central processor, the Resource Interface Module (RIM) connects the 8600 to an ARC local network. The RIM is located on a custom large-scale integrated circuit chip which eliminates bulky external boxes and cables while reducing the cost of local networking. Meanwhile, disk data transfers take place over high-speed memory access paths using the Direct Memory Access controller chip. The DMA chip moves data back and forth from the 9301 memory at extremely high speeds, and without requiring involvement from the processor. The advanced technology represented in the RIM and DMA chips and gate arrays significantly increases performance, improves reliability, and reduces costs.
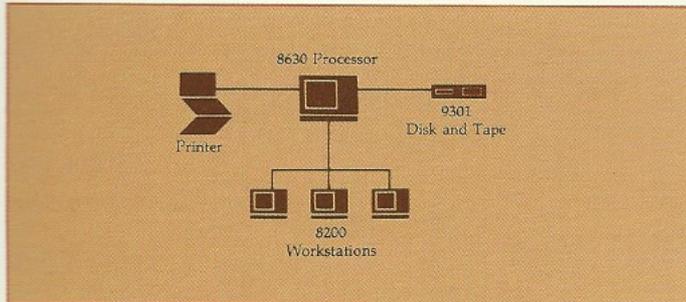

You can back up an entire disk unit on one removable cartridge tape in only 12 minutes, and the tapes are fully interchangeable among different drives.
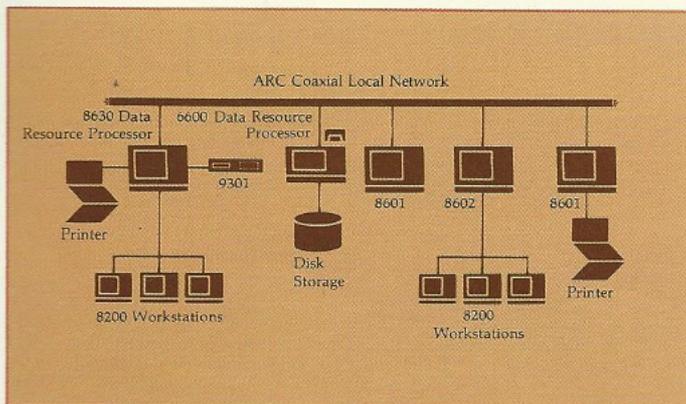
Local Network or Standalone Computer

Model	Storage Media	Storage Capacity	Ports/Communication Interfaces	Number of terminals/printers supported	Role
8601 128K or 256K memory	Uses ARC Storage media		Serial I/O port only	1 (non-concurrent)	ARC Applications Processor
8602 128K or 256K memory	optional: MIB for 9310 Disk or PIB for 9301 Disk	10MB to 100MB	MPCA (up to 3) MFCA (up to 2)	up to 12	ARC Applications Processor
8620 128K or 256K memory	MIB for 9310 10MB Removable Cartridge Disk with 1MB Diskette for Backup	10MB to 40MB	MPCA (up to 3) MFCA (up to 2)	up to 12	ARC Applications Processor ARC Data Resource Processor or Standalone System
8630 128K or 256K memory	PIB for 9301 20MB Disk with 20MB removable Cartridge Tape for Backup	20MB to 100MB	MPCA (up to 3) MFCA (up to 2)	up to 12	ARC Applications Processor ARC Data Resource Processor or Standalone System

The basic components of the 8600 series: configure them for widely varying capabilities.

Choose The Components And Capabilities To Meet Your Present and Future Needs

The 8600 can be configured as a standalone time sharing or shared logic system or an ARC local network processor. Designed as an entry level applications processor, the 8601 provides either 128K or 256K of memory at a competitive price, and can be easily upgraded to an 8602, which can support attached terminals and all feature options. The 8620 and 8630 configuration include disk storage systems that allow them to function either as standalone systems or data resource or applications processors in an ARC local network.

Growth With ARC Local Networks

The built-in Resource Interface Module (RIM) lets 8600 processors fit easily and economically into the unlimited growth environment of ARC local networks. Depending on your needs, the 8600 can act as a single workstation, as an applications processor supporting terminals, or as a data resource processor on RMS/ARC networks. And you can start and expand your system from any direction — add 8600s to existing ARC networks for really economical dispersed processing, or expand a standalone 8630 into a coaxial cable-based ARC local network. Either way, your investment stays protected, throughput remains high, and capabilities continue to expand.
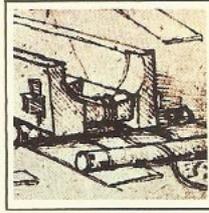

By itself or in an ARC local network, an 8630 Business Computer provides 128K or 256K of memory and up to 100MB of disk storage and supports multiple workstations and peripherals.

Functioning both as data resource processors and as applications processors in an RMS/ARC local network, 8600 computers bring economy, speed, and power to all network applications.

Efficient Business Applications

Mobilize The Powerful, Adaptable RMS Operating System

When you combine 8600 Business Computers with Datapoint's Resource Management System™ Operating System, you get power, flexibility, and superior economy for all your dispersed processing needs, with:
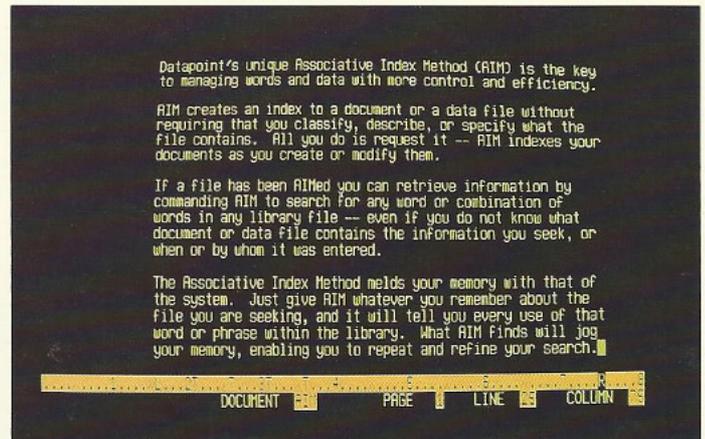
- ☐ dynamic system management for standalone systems, ARC local networks, and remote site operations
- ☐ the economy of shared logic for multifunction workstations
- ☐ total access to the full resources of the system regardless of physical location
- ☐ multiple languages and utilities for total office applications
- ☐ modular design to ensure easy growth and added capabilities.

And since you can also use 8600's in a Datapoint DOS system, they provide a highly economical way to add or convert to RMS as your needs change.


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--- STARTUP PROCESS COMPLETED ---
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ENV;HELP
ENVIRONMENT HANDLING UTILITY   1.1
Command line format:
  ENV ENV=:<env>,AFTER=:<env>,PRT=<print> ; <options>
Options:
    MAP          create print map of all HSI levels
    CREATE       create a new catalog and environment
    DELETE       delete environment and catalog
    INSERT or I  insert a new environment
    REMOVE or R  remove an environment
    MODIFY       change passwords on environment
    PASS         display passwords (also on no option)
    BACKUP       generate a CHAIN file for disk backup
       on command line: BKCHN=<output CHAIN file>
                        ENV=<source env for backup>
                        BKENV=<target env for backup>
      generates CHAIN file using generic COPYs
  "AFTER" env name allowed on CREATE, INSERT, and MODIFY
no option entry causes env data to be displayed
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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Featuring High Speed Word Processing

With the 8600's expanded instruction set, you get fast, easy document production and management on every workstation. High throughput rates keep the pace fast for productive word processing. The software utilizes simple English commands that can be reduced to a few keystrokes to invoke a full range of editing, filing, and retrieval capabilities on any workstation. And the software's menu-driven capability means you can add functions without changes to the hardware.

Full Capabilities On Every Workstation

The key feature of RMS is the speed, ease, and economy with which all business applications can be performed — on any large screen workstation in the system. Perform data processing, word processing, message services, telecommunications management, print spooling, information storage and retrieval, and personal computing activities. Operate concurrently in batch or interactive mode, using high-level programming languages like DATASHARE®, DATABUS®, COBOL, and RPGPLUS. And each 8600 can support multiple 8200 series workstations, including the low-cost, compatibly-designed 8220.
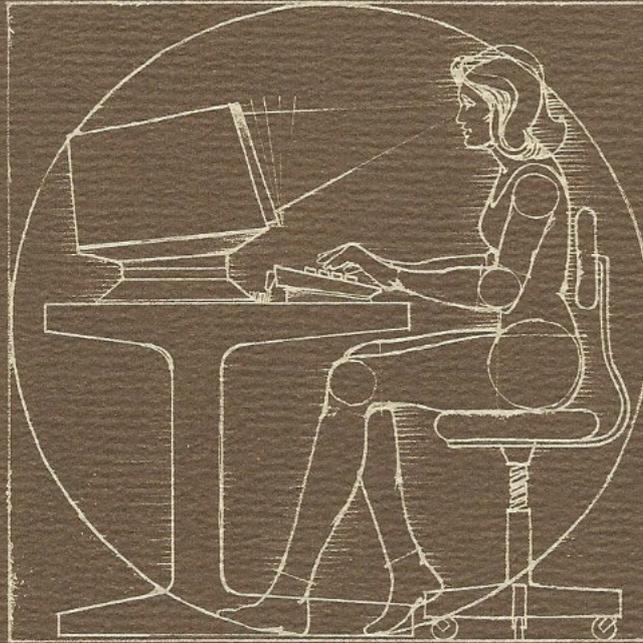
New Ergonomic Design

Easy On The Eyes: *Large display screen with amber characters on brown background. Enlarged 7x9 character matrix. 16 levels of brightness, adjustable from the keyboard.*

Compact Housing: *Sized to make the most of vertical space, occupying less desktop area while maintaining the full-size keyboard and screen.*

Adapts for User Comfort: *Detached keyboard can be placed up to three feet from the processor, or fit snugly against it for placement on a desktop or credenza. Optional tilt/rotate base allows users to adjust screen to most comfortable viewing angle.*

Reduced Machine Noise: *A thermostatically controlled two-speed cooling fan located inside the cabinet keeps noise at a barely-audible level.*

Both the 8600 and its companion 8220 workstation reflect applications of "ergonomics," human science engineering. This new, compact design promises to increase user productivity by increasing user comfort, with features like the less-tiring amber screen, larger characters, and adjustable base. The equipment itself is streamlined to make the most of an increasingly expensive resource — space. Even with the detached keyboard tucked beneath the screen, the complete unit is only 20 inches deep, easily fitting on a credenza, desktop, or typing table. And since the 8600 and 8220 both incorporate all these ergonomic features, users can alternate between processors and workstations without costly retraining.

D

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