

POINT 4'S MARK 5: POWERFUL AND FLEXIBLE MID-RANGE BUSINESS COMPUTER

The MARK 5 is a high-speed, general purpose minicomputer designed expressly for applications in business data processing, data communications, and control systems. Capable of supporting from one to 64 or more users concurrently, the MARK 5 has the capacity to combine with a broad selection of peripheral equipment. The result is an extremely flexible and powerful medium-range business computer system with a low per-user cost which can be tailored to provide a wide variety of business solutions.

The MARK 5 is supported by POINT 4's Interactive Real-time Information System: IRIS.[®] IRIS

is a high-performance, time-sharing operating system capable of supporting a large number of users efficiently. Business applications which run on the MARK 5 under IRIS are written in IRIS Business BASIC. BASIC is one of the most popular programming languages in the world today and is the language of choice of many developers of business applications.

MARK 5 FEATURES

- Powerful and flexible
- Low-cost, multi-user support
- High-speed, 16-bit central processor with 400 nanosecond cycle time
- Microprogrammed, industry-standard instruction set
- Central Processing Unit and 128K bytes of on-board Random Access Memory
- CPU and memory on a single, 15-inch printed circuit board
- Versatile, front loading 7-slot chassis for:
 - Peripheral controllers
 - High-speed DMA Multiplexer
 - LOTUS solid-state disk cache memory
- Optional battery back-up for fail-safe operation
- Optional parity check
- IRIS and BLIS/COBOL support
- Virtual Control Panel
- Built-in, self-test diagnostics



Low-cost power and flexibility for multiple users are the outstanding characteristics of the MARK 5. The MARK 5 is powerful enough to support up to 64 concurrent time-sharing users. And it does so with rapid response at each user's video display workstation. The MARK 5 is cost-effective at the entry-level, supporting a small number of users. Cost effectiveness per-user increases as more users are added. The MARK 5's low initial cost and high degree of upward expandability make it the logical choice for growing businesses.

Flexibility is a key feature of the MARK 5 for end-users and POINT 4's network of value-added resellers alike. The 15-inch-square printed circuit board packaging allows the MARK 5 to be configured with a wide selection of industry-standard peripheral devices and controllers. POINT 4 disks and controllers, high-speed DMA multiplexer, LOTUS Cache Memory and video display terminals can all be combined with the basic MARK 5

MULTI-USER SYSTEMS DESIGNED WITH YOUR NEEDS IN MIND

to produce a complete business computer system with a broad range of configuration options. The result is a system tailored precisely to the end-user's needs ...and his budget.

The MARK 5 employs the latest in technology to attain its impressive performance characteristics. It utilizes a proprietary MSI, bit-slice chip set implementation of its architecture. The entire central processing unit is controlled by a flexible, microprogrammed sequencer that permits high-speed operation. The cycle time of the central processor and the main memory is 400 nanoseconds. This powerful processor can sustain instruction execution rates of up to two and a half million instructions per second. This impressive performance is further enhanced by the processor design which fetches one instruction while executing another. The power and high technology of the MARK 5 are harnessed by POINT 4 and placed at the disposal of the end-user for the solution of business problems.

The best computer product in the world is only as good as its effective "in-use" time. To this end, the MARK 5 has an excellent record of high reliability and availability. POINT 4 has the confidence in the product to offer it under a full, one-year warranty.

POINT 4's MARK 5 represents both a tool and a solution. It is the central constituent of a high-performance, multi-user business data processing system. Its power, flexibility, and expandability combine to produce a low-cost investment which will yield dividends in the future.

SPECIFICATIONS

CPU/MEMORY BOARD

Word Length:

16-bits

General Purpose Accumulators:

4

Memory Cycle Time:

400 nanoseconds

RAM Access Time:

200 nanoseconds

Microprogram Cycle Time:

100 nanoseconds

Memory:

128K bytes, optional cache memory to 4M bytes

POWER

Power Requirements:

AC Input—99 to 129 VAC, 6 amps max., 47 to 440 Hz
Optional—199 to 257 VAC, 3 amps max., 47 to 440 Hz

Power Consumption:

450 watts max.

DIMENSIONS

Board Dimensions:

15 x 15 inches
(38 x 38 centimeters)

Processor Chassis:

Height—5.25 in., 13.34 cm
Width—19.0 in., 48.26 cm
Depth—17.5 in., 44.45 cm
Weight—20 lbs., 9.07 kg

Power Supply Chassis:

Height—5.25 in., 13.34 cm
Width—19.0 in., 48.26 cm
Depth—10.0 in., 25.40 cm

ENVIRONMENTAL

Temperature Range:

0 to 50 degrees Celsius

Relative Humidity:

10 to 90 percent noncondensing

CONFIGURATIONS

The MARK 5 is available in two configurations. Both models use the same CPU/memory printed circuit board.

1. CPU, 128K bytes of memory, virtual front panel, self-test diagnostics.
2. CPU, 128K bytes of memory, virtual front panel, self-test diagnostics, front loading 7-slot chassis, and standard power supply.

The MARK 5 is also available in floor cabinets.

POINT 4: RESPONSIVE TO OUR CUSTOMERS' NEEDS

At POINT 4 Data Corporation, our business is multi-user systems with a personal touch. We design and manufacture computer systems, distribute them through a worldwide network of value-added resellers and support those resellers with personal service.

POINT 4 computer systems are flexible, cost-efficient, expandable and upward compatible. And we're working for the future, developing new and better products and planning more and better ways to support our customers.

The materials contained herein are intended for general information. Details and specifications concerning the use and operation of POINT 4 Data Corporation's equipment and software are contained in the applicable technical manuals, available through local sales representatives.

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