

**Announcing:
IBM System /7**

The image features a vertical composition of abstract shapes. The top portion is a solid blue rectangle. Below this, a white shape curves downwards from the left edge, meeting the blue area. Underneath the white shape is a black area, which is further divided by a white diagonal line that starts from the left edge and extends towards the bottom right. The overall design is minimalist and geometric.

System/7

The System/7 can operate as a stand-alone system, it may be attached to an 1130 Host Processor thru the 1130 Storage Access Channel (SAC) or it may communicate with the System/360, System/370 or 1800 through a teleprocessing link.

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System Components

IBM 5010 Processor Module
IBM 5012 Multifunction Module
IBM 5014 Analog Input Module
IBM 5026 Enclosure
IBM 5028 Operator Station

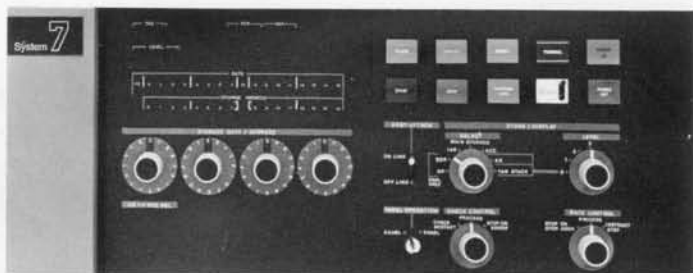
- B. Three types of I/O Modules
1. 5012 Multifunction Module which consists of:
 - Analog Inputs (Maximum of 32 points of low or medium speed analog inputs/unit)
 - Analog Output (Maximum two points/unit)
 - Digital Input (Maximum of 128 input points/unit)
 - Digital Output (Maximum

- A. 5010 Processor Module
This unit includes the basic processor and control circuits, Monolithic Storage, 5028 interface and 1130 Attachment or Asynchronous Communications Attachment.

of 64 output points/unit)
2790 Control which allows attachment of 2791/93 Area Stations to which 2795/96 Data Entry Units may be attached.

2. 5014 Model B0 1 Low Speed Analog Input Module (LSAI) has 128 input points/unit, analog to digital Conversion and maximum scanning speed of 200 points/second.
3. 5014 Model C0 1 Medium Speed Analog Input Module (MSAI) has 128 Input points/unit, analog to digital conversion, maximum scanning speeds up to 14,000 points/second on low level inputs, 20,000 points/second on high level inputs, and 7,000 points/second on auto gain operation.

- C. 5026 Enclosure consists of three models.
1. Model A0 2 provides power, console functions and mounting for two modules, one processor and one feature.
 2. Models C0 3 or C0 6 provide power, console functions and mounting for three and six modules respectively. Each must contain one processor module. The other module positions may contain any I/O module desired.
 3. Models D0 3 or D0 6 provide power and mounting for three or six I/O modules. This enclosure may be located up to 200 feet away from the Model C0 3 or C0 6 to which they are attached.
- D. 5028 Operator Station consists of a keyboard, a printer, paper tape reader and paper tape punch.



Monolithic Storage

Monolithic Storage may be obtained in increments of two thousand (2K) words from 2K to 16K. It is non-destructive readout with a 400 nanosecond read or write cycle. A word consists of 16 bits and two parity bits.

Technology

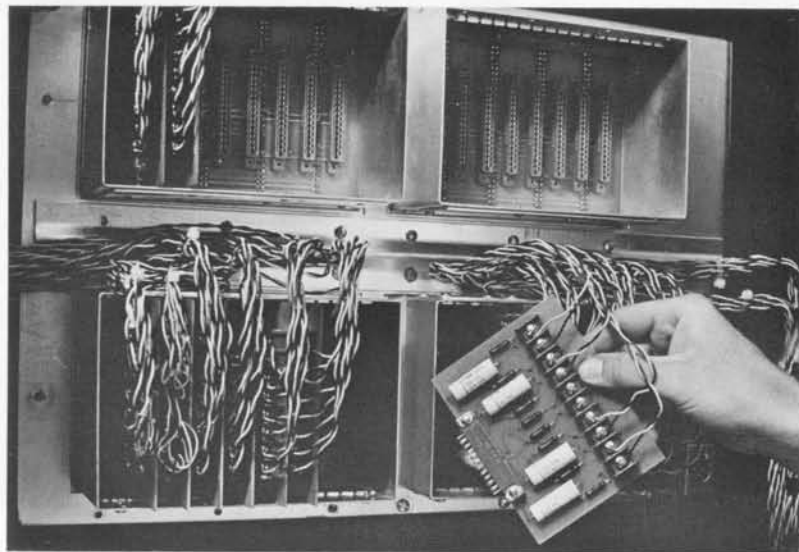
The System/7 standard logic circuitry incorporates Monolithic System Technology (MST-1). The Sensor I/O circuits incorporate special components and technology. These circuits consist of analog to digital converters, digital to analog converters, multirange amplifiers, analog multiplexers, digital output and digital input.

Service Features

1130-System/7 Channel disconnect capability.
Diagnostics loaded from an audio cassette cartridge.
Error log and log analysis.
Comprehensive fault locating with English language communications.
Closed loop Asynchronous Communications testing.
Scope loop Diagnostics.

CE Career Path

The System/7 will be serviced by Customer Engineers assigned to Data Systems Career Path.



System/7



Programming Support

System/7 Modular System Programs (MSP/7)

Provides host system program preparation via macro library extensions to the assemblers on either the 1130, 1800, or System/360 Model 25 or larger. This library provides:

- Instruction set macros
- Configuration macros
- System support macros
- Sensor-based Data Access macros
- Communication facility support macros

1130 Distributed System Program — 1130 DSP

An enhancement to the 1130 Disk Monitor System, Version 2, which provides the support for operating the 1130-System/7 multiprocessor configuration as a single system.

1800 Distributed System Program — 1800 DSP

An enhancement to the 1800 MPX which provides support for an 1800-System/7 tele-processing link.

System/7 Assembler and Utilities

The System/7 Assembler is a paper tape, one pass, one-for-one assembler program which translates System/7 Assembler language source programs into machine loadable object programs.

Included with the System/7 Assembler are storage patch and dump utilities to assist in program maintenance and debugging.

IBM

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