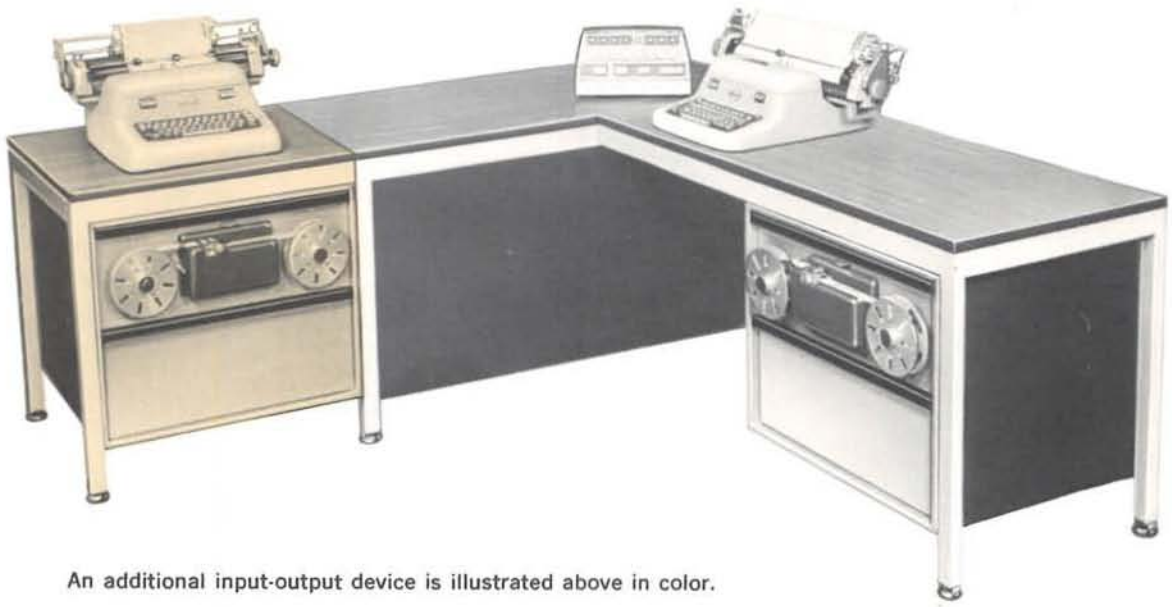
MONROBOT XI is a small, general-purpose stored program digital computer. It has sufficient capacity and input-output equipment available to satisfy the needs of many business and scientific applications. Its transistorized design assures long life and high reliability, as well as low-power consumption and small size. The machine consists of a processing unit with a magnetic drum storage system, and a maximum of three input devices and three output devices. The computer is housed in one simple office desk and is illustrated below. Additional input-output devices in auxiliary cabinets are attached in a matter of moments.

MONROE *electronic data processing*



An additional input-output device is illustrated above in color.

- Inputs from punched tape, punched cards, teletypewriter, electric typewriter or numeric keyboard, in any combination of up to three devices.
- Outputs to punched tape, punched cards, teletypewriter or electric typewriter, in any combination of up to three devices.
- Simple plug-in coupling of auxiliary input-output devices.
- Processes all existing codes.
- Processes both alphabetic and numeric data.
- 9,000 digit storage capacity.
- Sufficient storage for up to 2,000 instructions.
- Stored programming provides operational versatility, simplicity and flexibility.
- Performs 5,000 additions or 2,000 multiplications per minute.
- Independent control of each output device permits simultaneous print-out to different formats.
- Automatic processing operation may be halted through the control panel for entry of additions, corrections or exceptions.
- Can be operated by any typist.
- Can be plugged into an ordinary 110v. wall outlet.
- No air-conditioning required.

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PRINTED IN

DATA SHEET

THE MONROBOT XI

The Monrobot Mark XI is a small, general purpose stored program digital computer. It has sufficient capacity and input-output equipment available to satisfy the needs of virtually all business and office applications. Its transistorized design assures long life and high reliability as well as low-power consumption and small size.

NUMERICAL SYSTEM

Internal number system	*Binary*
Binary digits per word	*32 including sign*
Binary digits per instruction	*16*
Instructions per word	*2*
Instructions decoded	*27*
Instructions used	*27*
Arithmetic system	*Fixed point; programed floating point*
Instruction type	*One address*
Number range	*0 to $2^{31}-1$*

ARITHMETIC UNIT

Add time	*3 ms **
Subtract time	*3 ms **
Multiply time	*28 ms **
** excluding storage access (6 ms avg)*	
Construction	*Transistors*
Base pulse repetition rate	*180 kc/sec*
Arithmetic mode	*Serial*
Timing	*Synchronous*
Operation	*Sequential*

Source of the 180 kc/sec pulse is a clock track on the magnetic drum

STORAGE

Magnetic drum (5200 rpm)	*1024 words - memory and instructions*
Average access time - 6 ms	*Word size: 32 bits or 9 decimal digits or 5 alpha-numeric characters*

INPUT

Numerals and alphabetic characters may be in any code up to and including 8 bits

Paper tape (any code)	*20 characters per second*
Typewriter keyboard	*Manual*
Teletypewriter	*Manual*
80 column card	*16 columns per second minimum*
Auxiliary sixteen key numerical keyboard	*Manual*

Any combination of these units to a maximum of 3 may be attached for input.

OUTPUT

Same as above excluding auxiliary numerical keyboard.

CIRCUIT ELEMENTS

Transistors
Crystal diodes
Printed circuits

CHECKING FEATURES

Fixed
Programed check

POWER, SPACE, WEIGHT

105 - 125 volts, 60 cycle, 850 watts
Air conditioning not required
48" × 22" × 28" = desk size
375 lbs.

MONROE
A DIVISION OF THE BUSINESS MACHINES GROUP OF LITTON INDUSTRIES

DATA SHEET

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THE MONROBOT MARK XI

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MONROE CALCULATING MACHINE COMPANY, INC.
GENERAL OFFICES • ORANGE, N. J.
A DIVISION OF LITTON INDUSTRIES