

Stantec Zebra

L/101
Ed.1

ELECTRONIC DIGITAL COMPUTER

APR 2 1961



Stantec-Zebra is made up of three items of equipment as illustrated.

The Computer Cubicles

These contain the Store, Arithmetic and Control Units and also incorporate Monitor and Test equipment.

The Control Desk

On this are mounted the Input and Output Equipments and the Operating Controls.

The Power Cubicle

In this the Power Supply Units are equipped.

BRIEF SPECIFICATION

Please address inquiries
to
Intelex Systems Incorporated
22 Thames Street
New York 6, N. Y.

Mode	Serial-Binary.											
Word Length	33 binary digits (includes 1 sign digit).											
Main Store	Magnetic Drum with a capacity of 8 192 words. Revolution speed 6 000 r.p.m. Maximum access time 10 ms. Word time—312 μ s.											
Computing Store	15 immediate access stores, each of 1 word length.											
Optimum Operation Times	<table border="0"> <tr> <td>Addition</td> <td rowspan="2">}</td> <td>312 μs</td> </tr> <tr> <td>Subtraction</td> <td></td> </tr> <tr> <td>Multiplication</td> <td></td> <td>11 ms.</td> </tr> <tr> <td>Division</td> <td></td> <td>35 ms.</td> </tr> </table> <p>An average operational time of all operations (measured over numerous programmes) is 2 ms.</p>	Addition	}	312 μ s	Subtraction		Multiplication		11 ms.	Division		35 ms.
Addition	}	312 μ s										
Subtraction												
Multiplication		11 ms.										
Division		35 ms.										
Input	Punched paper tape with a maximum speed of 200 characters per second. One input device is normally provided. The machine is designed to work with several input devices in parallel if such an arrangement is desired.											
Output	<p>Two output devices are normally provided.</p> <p>(1) Punched paper tape with a speed of 25 or 50 characters per second.</p> <p>(2) Direct printing at a speed of 7 characters per second.</p> <p>Several output devices can be used in parallel if so desired. Alternatively, it will be possible to use printing devices of much higher speed when these become available.</p>											
Monitor and Test	<p>Monitoring CRT displays allow the contents of 4 stores to be examined at any one time. Variations of high tension voltages can be used to detect incipient component failures.</p> <p>Test programmes are provided to be used with marginal testing facilities.</p> <p>Plug-in electronic units are employed incorporating plug and socket arrangements of well-proven design; spares are provided so that suspect units can be removed for test and, if necessary, repair. This feature also allows a maintenance test routine to be established.</p> <p>Test keys are provided to enable orders or instructions to be set-up under manual control.</p>											
Power Supply	Approximately 3 kVA is required by the machine.											
Approximate Dimensions	<p>Computer (with monitor and test equipment) two cubicles each = 6 ft. 6 in. \times 3 ft. 3 in. \times 2 ft. 0 in.</p> <p>Power Cubicle = 6 ft. 6 in. \times 3 ft. 3 in. \times 2 ft. 0 in.</p>											

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