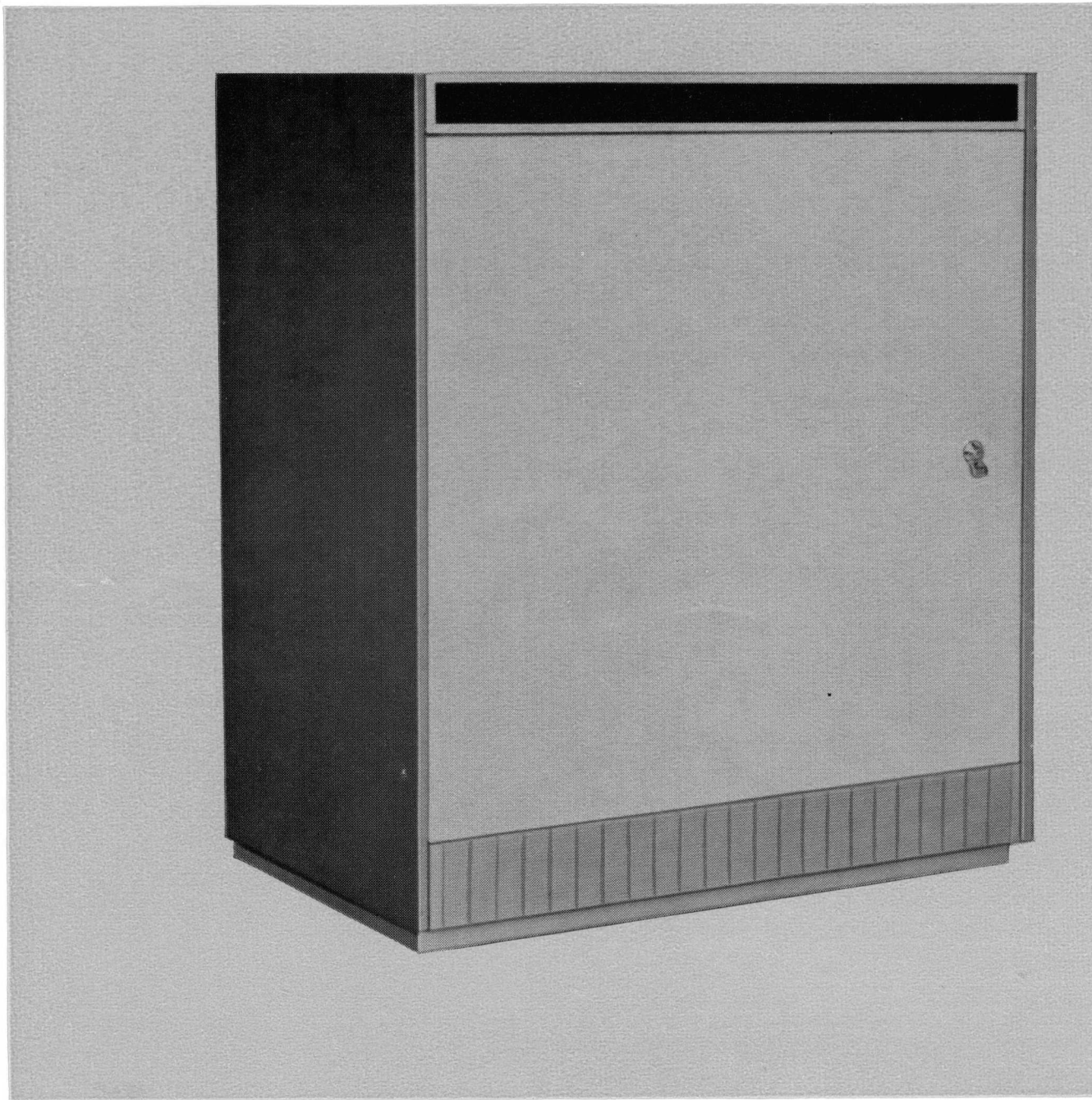




I.C.T 1900 SERIES

DRUM STORAGE 1962, 1963 and 1964



DESCRIPTION

Magnetic drums provide bulk data storage for the 1900 series with direct access to individual 24-bit words. Capacity ranges between 131,072 to 8,388,608 characters.

Drums are attached to a Drum Control Unit which provides data transfer to and from the Central Processor via I.C.T Standard Interface.

- Direct access storage to over eight million characters on line
- Addressing of individual words
- Choice of drum size and transfer rate

DRUM STORAGE

1962, 1963 and 1964

Storage Unit

Drum storage is based on three drum types:

1962	131,000 characters
1963	524,000 characters
1964	2,097,000 characters

Data are recorded on a nickel-cobalt magnetic surface via out of contact read-write heads. There is one head for each track of the drum.

Addressing

Data words on each drum unit are referred to by a unique binary address. Addressing of the whole drum is executed via a 23-bit field which refers to the data in store in an unbroken sequence starting from zero.

Data Organization

Data are recorded bit-serially on a drum track in units of 24-bit words. A parity check bit is inserted by the Drum Control with each six-bit character and recorded with the data on the drum track. Automatic checking is carried out during a read operation.

Drum Control

The drum control can handle up to four drums of the same type. An initial installation can be expanded up to the maximum number of drums on site.

SPECIFICATION

	Track capacity characters	words	Number of data tracks
1962	1,024	256	128
1963	2,048	512	256
1964	4,096	1,024	512
	Capacity of one drum	Capacity with four drums of same type	
1962	131,072	524,288	
1963	524,288	2,097,152	
1964	2,097,152 characters	8,388,608 characters	
	Latency (half revolution time) milli-seconds	Word transfer time (minimum) micro-seconds	
1962	10	80	
1963	10	40	
1964	20	40	
	Maximum transfer rate thousand characters/second		
1962	50		
1963	100		
1964	100		

If required for small 1900 series installations, 1963 and 1964 Drums can be specified to operate at 50,000 characters a second. This can be converted to 100,000 on site.

PHYSICAL CHARACTERISTICS

The drum storage system is housed in one or more free standing cabinets:

1962 A single cabinet houses the Drum Control and up to four drums.

1963 A single cabinet houses the Drum Control and up to two drums. Two additional drums of the same type can be housed in a separate cabinet.

1964 A single cabinet houses the Drum Control and one drum. Up to three additional drums may be housed in three separate cabinets.

This specification is subject to modification

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