175 BASIC

MITS™ 1302 Turnkey Computer System with Integral Disk Storage

SINGLE DRIVE $895.
SECOND 610

The MITS™ 1302 is a Turnkey computer system with integral disk storage. Based upon the MITS 1200 Turnkey computer and dual Pertec FD200 Microfloppy Disk Drives, the 1302 offers a high reliability computer with over 141 kilobytes of random access mass storage in a desk-top system.

The MITS 1302 will support up to 64K of directly addressable memory and can address up to 256 separate input/output devices. The heavy duty (18 amp) power supply permits operation with a full complement of optional boards.

All control, status and data I/O operations for the disk drives are handled through the 1302's internal controller. For maximum power economy, an internal timing circuit turns off drive motor power when the disk drives are not busy. The controller will control up to 2 additional flexible disk drives for easy system expansion as your requirements grow.

A standard RS-232 serial port, with optional data transfer rates from 110 to 9600 baud, interfaces directly with a CRT or terminal. Additionally, a 256 byte disk bootstrap loader PROM is included. This permits automatic start-up and software loading with a turn of the front panel key.

Please refer to the reverse side for specifications.

Microprocessor	8080A
Clock Frequency	2 MHz
Data Word Size	8 bits
Instruction Word Size	8 to 24 bits (variable)
Number of Instructions	78
Add Time, Register to Register	2 μsec per data word
I/O Word Size	8 bits
Addressable I/O Channels	256
Interrupt Capability (Std.)	Single level
(Opt.)	Eight level, vectored interrupt
RAM (Random Access Memory) (Std.)	33K byte
(Opt.)	To 65K bytes
Maximum Access Time	350 nsec
PROM Memory	Up to 1K available on Turnkey module. Additional available on optional boards.
Serial I/O	1 port standard on Turnkey module. RS232, 9600 baud standard. 110 — 9600 baud optional Additional ports available on optional boards.
Motherboard Capacity	10 slots
Power Supply	+ 8 volts at 18 amperes ± 18 volts at 2 amperes
Power Input	110/220v ac, 50/60 Hz
Cabinet Size	178 X 432 X 445 mm (7 X 17 X 17.5 inches)
(19-Inch EIA Rack Mount Optional)	
Weight (maximum)	19 kg (42 pounds)
Disk Drives	
Data Capacity	71,680 bytes per diskette
Tracks	35
Sectoring	Hard sectored, 16 sectors.
Data Byte per Track	2,048
Diskette Type	5.25 inches
Data Bytes per Sector	128
Rotational Speed	300 RPM (200 msec/rev)
Data Transfer Rate	125,000 bits per sec
Access Time	Track to track: 50 msec Disk enable to read or write: 1 sec min. Average access time: 1.85 sec, 2.9 sec
Software	
Resident Assembler	Yes
Language	BASIC, FORTRAN
Monitor	System monitor; text editor

Applications Software Available (priced separately).

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