xebec

SYSTEMS INCORPORATED

# The XCS Cassette System

This versatile computer-peripheral system comes with one to four cassette tape drives (Cipher C200 type) sharing a common controller. Field expandable, it offers all the popular second-generation features like record and file backspacing, and read-after-write. In addition, its interfaces are available for mini computers of all major OEM companies, and may be ordered with the RS232 interface. Standard software includes I/O drivers and diagnostic package.


The following drive functions are available . . .

- ☐ Clear Command Register
- ☐ Read One Record Forward
- ☐ Space One Record Forward
- ☐ Space One Record Reverse
- ☐ Read One File Forward
- ☐ Space One File Forward
- ☐ Space One File Reverse
- ☐ Read-After-Write One Record Forward
- ☐ Continue Read-After-Write One Record Forward
- ☐ Read-After-Write File Mark
- ☐ Erase 3 Inches of Tape
- ☐ Rewind

## CONTROLS & INDICATORS

Ready –
Read –
Write –
Selected –
Rewind –
On Line –
Unit Address Selector –

} Provided for each transport

## STATUS DATA INPUTS

- Drive Selected, Ready & On Line
- File Protected Cassette
- Data Error Detected
- Timing Error Detected
- End of File Detected
- Drive Rewinding
- Tape at Beginning Clear Leader
- Tape at Ending Clear Leader

## INPUT/OUTPUT DATA

- Input/Output Data Lines Presented in 8-bit byte
- Preamble-Postamble
- Data recorded and formatted per ANSI and ECMA specifications

## ERROR CHECKING

Data error is signal if the block check characters do not compare. Timing error is signal when drive is not serviced within set time limit. Data and timing error are both signal if more than one unit is set to the same unit address.

# General Specifications

## TYPE OF CASSETTE

**Cartridge Used –**
Standard Norelco type or a Xebec certified cartridge. (300 ft., 0.5 mil, .150" wide)

**Loading and Unloading –**
Front door spring locked. Cassettes when loaded are positively located and held in position by guides and spring loaded clamps.

## NUMBER OF CHANNELS

One (1); two (2) optional

## TRACK WIDTH

0.048" Write
0.032" Read

## DENSITY

800 Bits per inch

## RECORDING METHOD

Bit serial, phase encoded per ANSI standards.

## TAPE SPEED

6 – 24 ips

## START TIME

30 ms

## STOP TIME

30 ms

## TRANSFER RATE

600.0±10.0 Characters per second at 6 ips.
2400.0±38.5 Characters per second at 24 ips.

## HEAD SPECIFICATIONS

Read-After-Write. Gap-to-Gap Spacing. (This insures data has been written properly without having to backspace and switch into Read mode.)

## REWIND

24 ips

## TAPE TRANSPORT DRIVE SYSTEM

Four (4) motors – two for driving capstan, two for driving reels.

## ERROR RATE

$1 \times 10^{7}$

## EOT/BOT

Photo-electrically sensed (automatic pre-load sequence insures tape is at the beginning after loading cassette).

## SKEW

Single track recording used, thus skew is not a problem as in units using multiple track heads.

## PHYSICAL DIMENSIONS

**Size –**
1 or 2 transports 19" w x 5-1/4" h x 22" d – 1 chassis.
3 or 4 transports 19" w x 10-1/2" h x 22" d – 2 chassis.

**Field Expand –**
1 up to 4

**Power –**
115 VAC 50 – 60 Hz 83 Watts

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