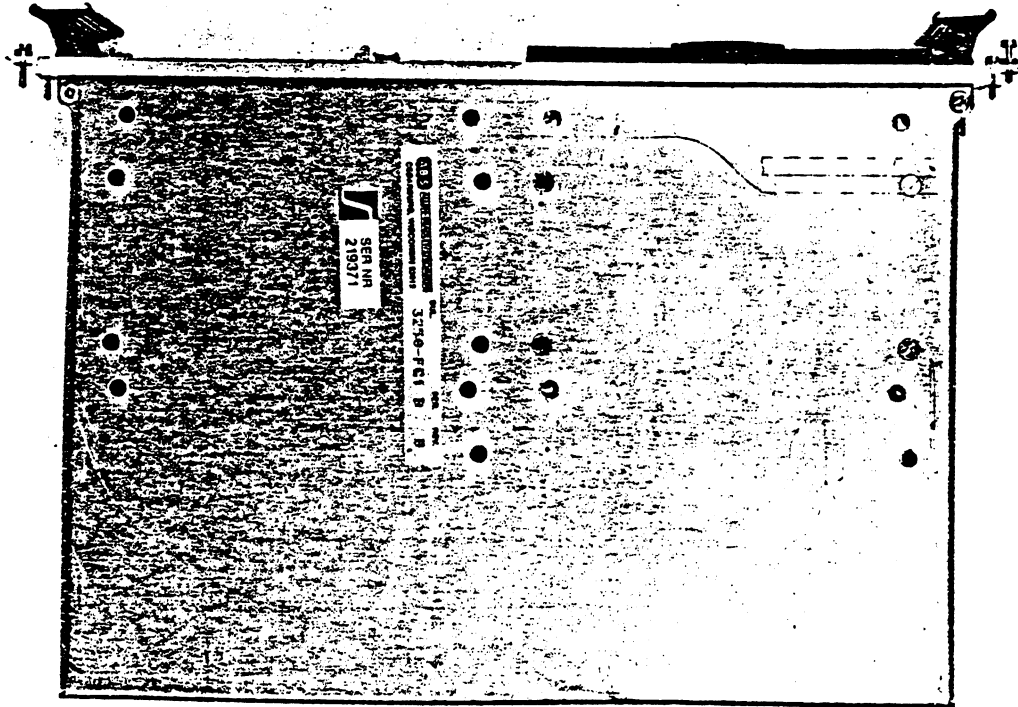


Bulletin 3250-FC1

DRC Floppy Disk Drive Series B



3250-FC1

General Description

The 3250-FC1 Disk Drive package (Figure 1) contains one floppy disk drive Interface Board and one 3-1/2" floppy disk drive. The Interface Board controls data flow between the Digital Reference Control (DRC) rack mounted Floppy Disk Controller Card (3250-FDC) and the disk drive located in the disk drive package.

Specifications

Location	CPU Rack, I/O Rack or externally mounted
Power Requirements	+ 5V DC @ 0.26Amp to 0.42 Ampere + 15V DC @ 0.33 Amp to 0.42 Ampere
Environment	Temperature: 5° C to 45° C (40° F to 110° F) Relative Humidity: 20% to 80% non-condensing

Associated Functional Blocks

None

Description of Operation

Data flow between the rack mounted Floppy Disk Controller card (3250-FDC) and the disk drives is controlled by an Interface Board which is capable of interfacing with a maximum of two disk drives. The Floppy Disk Controller Card is capable of controlling up to four disk drives, a minimum of two Interface Boards are required if all four disk drives are to be used.

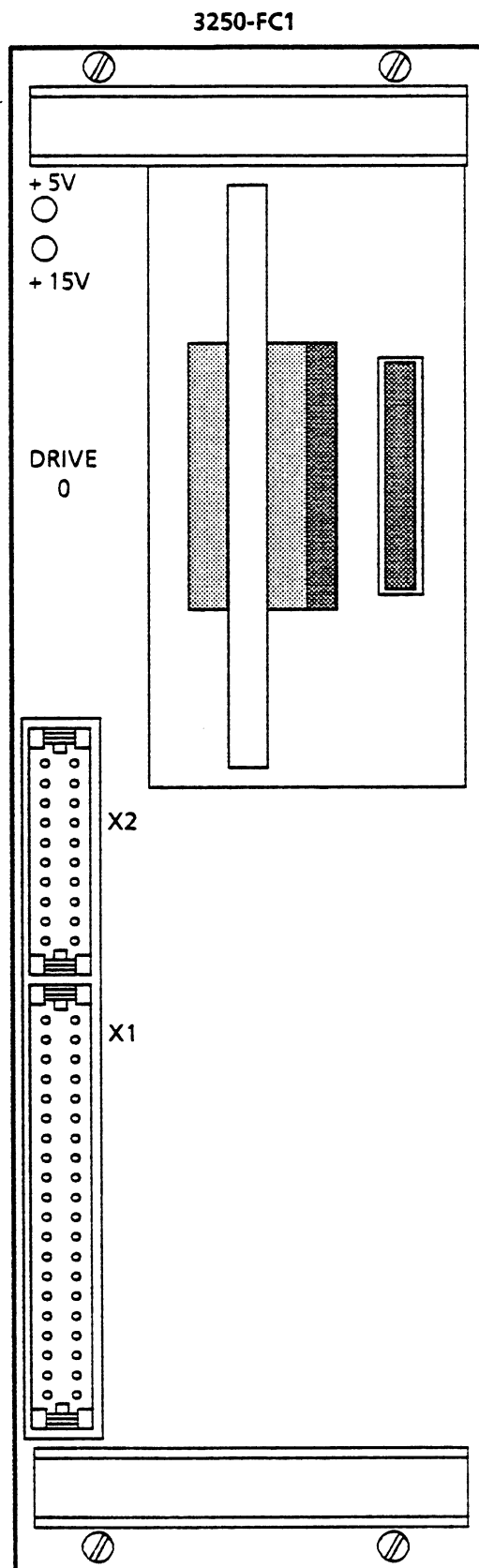


Figure 1. 3250-FC1 Disk Drive Package

Disk drives are physically mounted in packages containing one Interface Board and one 3-1/2" disk drive. Each disk drive provides a maximum of 1 M-byte of unformatted memory. Data flow between the Floppy Disk Controller Card and the Interface Board is transferred via a 40 pin ribbon cable connected to X1 on the Interface Board (Figure 1).

The disk drive package is sized to fit vertically in the standard DRC rack, although there are no physical connections between the disk drive package and the backplane of the rack. The disk drive package requires 3 rack slots. The package may be mounted either vertically or horizontally external to the DRC rack. Power to the package is provided from the Floppy Disk Controller Card thru a 20 pin ribbon cable connected to X2.

The Interface Board monitors the +5V DC and +15V DC levels and allows start up of the disk drive only if the +15 VDC power supply is at a level of +14.1V DC minimum. Light Emitting Diodes (LEDs) located on the front of the disk drive package (Figure 1) indicate the status of the power supplies. The disk drives require +12V DC which originates from the +15V DC input located on the Interface Board.

Since the Interface Board may access up to two disk drives, and the Floppy Disk Controller Card may access up to 4 disks, it is necessary to assign a unique disk address to each disk drive in the package. This is accomplished by switch S1 on the Interface Board physically located in the back of the disk drive package (Figure 2). Positions 1 thru 4 of S1 determine the address of the top disk drive while positions 5 thru 8 determine the address of the bottom disk drive. Table 1 summarizes the S1 settings.

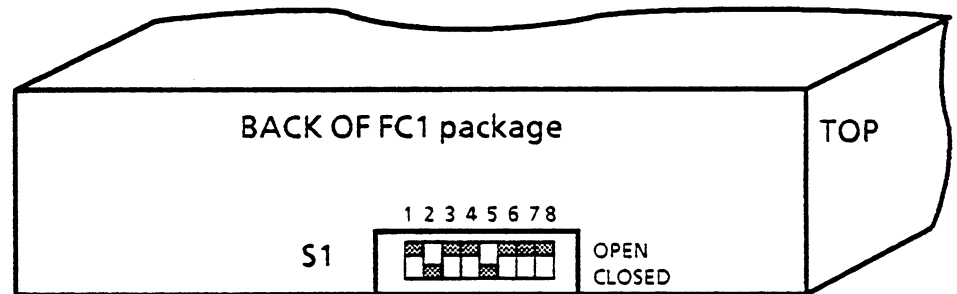


Figure 2. S1 Location

Table 1. Disk Drive Address Selection

ADDRESS	TOP DRIVE			
	S1			
	1	2	3	4
0	1	0	0	0
1	0	1	0	0
2	0	0	1	0
3	0	0	0	1

LOGIC 1 = S1 position CLOSED
LOGIC 0 = S1 position OPEN