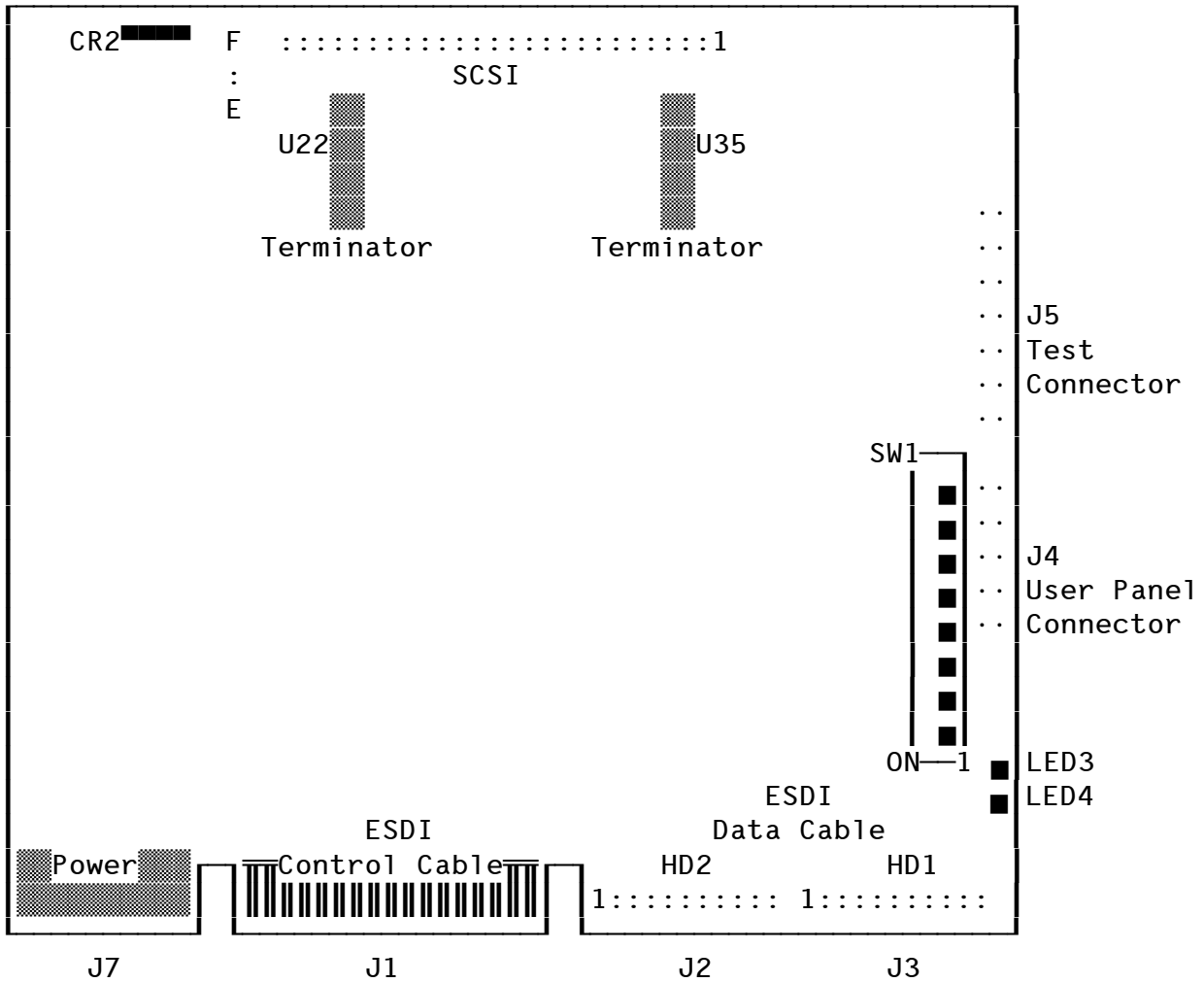


EMULEX MD21

- supports narrow SCSI bus
- supports up to two 10 or 15MHz ESDI hard drives, soft sectored or hard sectored with up to 36 or 54 sectors per track
- supports automatic drive media defect management

J6



SCSI Bus Termination

Leave both terminators in place if the SCSI host adapter is connected to one end of the SCSI cable and the MD21 to the other end. Pull both terminators if the MD21 is connected between the SCSI host adapter and another SCSI device.

Switch SW1 Options

ON	OFF		ON	OFF	default
■	8	SCSI Parity Check	enabled	disabled	disabled
■	7	Soft Error Reporting	disabled	enabled	enabled
■	6	Start Drive Motor	by SCSI command	at Power Up	at Power Up
■	5	Physical Sector Size	256 kilobyte	512 kilobyte	512 kilobyte
■	4	not used			OFF
■	3	SCSI Address			
■	2	SCSI Address			
■	1	SCSI Address			

SCSI Address

Address	SW1/1	SW1/2	SW1/3
0	OUT	OUT	OUT
1	IN	OUT	OUT
2	OUT	IN	OUT
3	IN	IN	OUT
4	OUT	OUT	IN
5	IN	OUT	IN
6	OUT	IN	IN
7	IN	IN	IN

SCSI Termination Power Option

If the MD21 should supply termination power to the SCSI bus, a #1N5817 diode has to be installed at reference designator CR2 and a wire-wrap jumper has to be connected between jumper posts E and F.

LED Sequences

	LED3 green	LED4 red
During Self Test Procedure		
Hardware Reset Test	OFF	OFF
8031 Test	OFF	ON
Prom Checksum Test		
Buffer Controller Test		
Dynamic RAM Test		
Disk Formatter Test	ON	OFF
SCSI Controller Test		
Self Test Passed		

Normal State of Operation	LED3 green	LED4 red
Idle State	flashing	OUT
While executing a Command	stop flashing momentarily	OUT

Board Connectors

- J1 34-pin control cable connector hard drive
- J2 20-pin data cable connector drive 1
- J3 20-pin data cable connector drive 2
- J4 User Panel connector
- J5 Test connector
- J6 50-pin SCSI connector
- J7 4-pin power connector

Setup

The SCSI host adapter hard disk format program initializes the ESDI hard drive with a low-level format.

In case of Adaptec SCSI host adapters, this process is done within the DOS operating system. At the DOS start up, a host adapter specific ASPI driver has to be loaded with the help of a config.sys entry. Then 'scsifmt.exe' from Adaptec initializes the drive.