

Micropolis 4345SD Disk Drive

Ultra SCSI (SCSI-3), Wide, Differential, 80-Pin SCA-2 Connector

Configuration/Specification Data Sheet

Formatted Capacity

Per Drive	4.55 GB
Bytes per Sector	512
Sectors per Track	Variable
Cylinders	4811

Performance Specifications

Avg. Seek Time (includes settling time)	7.9 msec
Avg. Rotational Latency	4.17 msec
Rotational Speed	7,200 rpm
Data Transfer Rate at Interface	
Ultra SCSI	40 MB/sec
Synchronous	20 MB/sec
Asynchronous	10 MB/sec
Internal Data Rate	
Inner Zone	76 Mb/sec
Outer Zone	125 Mb/sec
MTBF (power-on hours)	650,000 (Office Environment, Class B)
Positioner	Fully balanced rotary voice coil
Parking	Automatic park and lock

General Functional Specifications

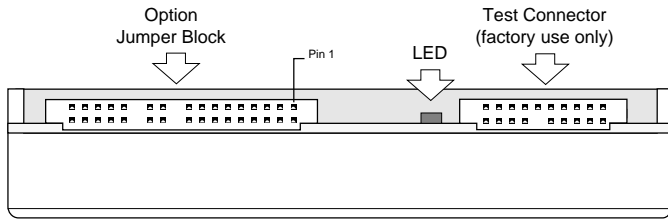
Interface	Ultra SCSI (SCSI-3)
Supports Full Common Command Set	Yes
Drivers/Receivers	Wide, Differential

Power Requirements

+12V \pm 5% (average)	0.55 A
+12V \pm 5% (max during start-up)	1.75 A
+5V \pm 5% (average)	1.20 A
Power Dissipation, typical	
Idling	11 Watts (37.5 Btu/hr)
Seeking	13 Watts (44.4 Btu/hr)

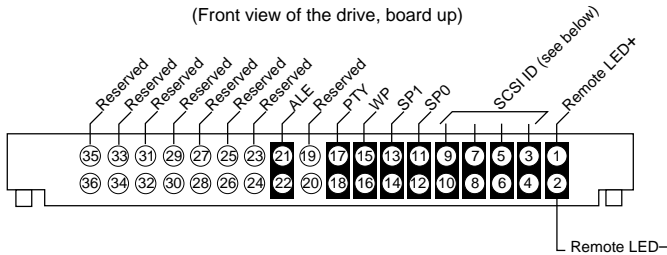
Configuration Options

FRONT VIEW



Dwg File 50055

OPTION JUMPER BLOCK J2
(Front view of the drive, board up)



NOTE: Pins 4, 6, 8, 10, 12, 14, 16, 18, 22, and 24 are tied to Ground.

- **SCSI ID**

Jumpers at Pin 3-4, 5-6, 7-8, & 9-10 select the SCSI ID. Each SCSI device on one Host Adapter must have a unique SCSI ID (0-15). SCSI ID0 is the Default.

SCSI ID	Pin 9-10	Pin 7-8	Pin 5-6	Pin 3-4	SCSI ID	Pin 9-10	Pin 7-8	Pin 5-6	Pin 3-4
0	-	-	-	-	8	✓	-	-	-
1	-	-	-	✓	9	✓	-	-	✓
2	-	-	✓	-	10	✓	-	✓	-
3	-	-	✓	✓	11	✓	-	✓	✓
4	-	✓	-	-	12	✓	✓	-	-
5	-	✓	-	✓	13	✓	✓	-	✓
6	-	✓	✓	-	14	✓	✓	✓	-
7	-	✓	✓	✓	15	✓	✓	✓	✓

✓ = jumper installed

- **Remote LED**

Open-collector output - Used to drive a user-supplied LED to indicate the drive is active.

- **Spindle Control (SP0)**

Jumper installed at SP0, jumper omitted at SP1 - The spindle motor starts when SCSI 'START UNIT' command is received.

Jumpers omitted at SP0 (Default) and at SP1 - The spindle motor starts at power-on.

- **Spindle Delay (SP1)**

Jumper installed at SP1, jumper omitted at SP0 Spindle motor start-up is delayed, based on the SCSI ID (12 seconds per SCSI ID).

Jumpers omitted at SP1 (Default) and at SP0 - The spindle motor starts at power-on.

- **Write Protect (WP)**

Jumper installed at WP - The drive is write protected.

Jumper omitted at WP (Default) - The drive is not write protected.

- **BUS Parity Check (PTY)**

Jumper installed at PTY - The drive neither generates nor detects parity.

Jumper omitted at PTY (Default) - The drive generates parity and has parity detection enabled.

- **Activity LED Enable (ALE)**

Jumper installed at ALE (Default) - Interface ACTIVITY LED OUT signal is *enabled*.

Jumper omitted at ALE - Interface ACTIVITY LED OUT signal is *disabled*.