Micropolis 4345SS Disk Drive
Ultra SCSI (SCSI-3), Wide, Single-Ended, 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

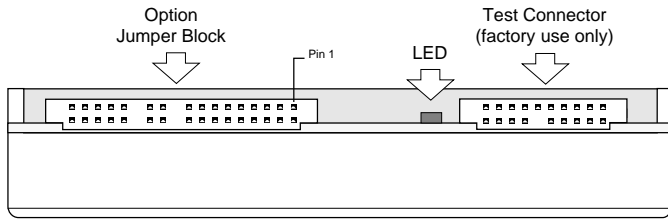|	
Avg. Seek Time (includes settling time)	7.9 msec
Avg. Rotational Latency	4.17 msec
Rotational Speed	7,200 rpm
Data Transfer Rate at Interface	
Ultra SCSI	40 MB/sec
Synchronous	20 MB/sec
Asynchronous	10 MB/sec
Internal Data Rate	
Inner Zone	76 Mb/sec
Outer Zone	125 Mb/sec
MTBF (power-on hours)	650,000 (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, Single-Ended

Power Requirements

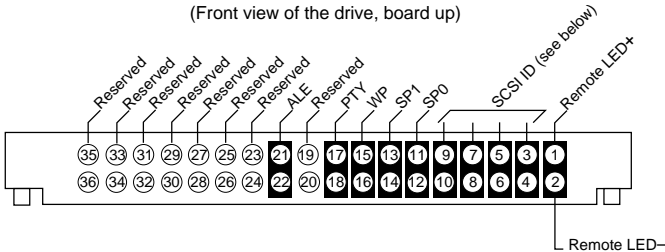|	
+12V ±5% (average)	0.55 A
+12V ±5% (max during start-up)	1.75 A
+5V ±5% (average)	1.10 A
Power Dissipation, typical	
Idling	10 Watts (34.1 Btu/hr)
Seeking	12 Watts (41.0 Btu/hr)

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.*