Micropolis 3391AV Disk Drive
Ultra SCSI (SCSI-3), Narrow, Single-Ended, Standard 50-Pin Connector
Configuration/Specification Data Sheet

Formatted Capacity

Per Drive	9.103 GB
Bytes per Sector	512
Sectors per Track	Variable
Cylinders	4,735

AV Data Rate Specifications

Max. Sustained	9.5 MB/sec
Min. Sustained	6.5 MB/sec

Performance Specifications

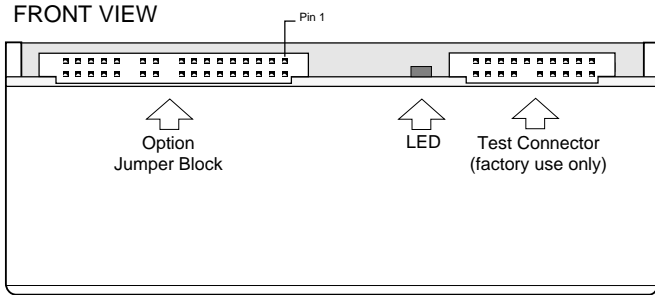|	
Avg. Seek Time (includes settling time)	7.9 msec
Avg. Rotational Latency	4.17 msec
Rotational Speed	7,200 rpm
Data Transfer Rate at Interface	
Ultra SCSI	20 MB/sec
Synchronous	10 MB/sec
Asynchronous	5 MB/sec
Cache Buffer	2 MB
MTBF (power-on hours)	650,000 (Office Environment, Class B)
Positioner	Fully 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	Narrow, Single-Ended

Power Requirements

+12V ±5% (average)	0.8 A
+12V ±5% (max during start-up)	2.52 A
+5V ±5% (average)	1.0 A
Power Dissipation, typical	
Idling	14 Watts (47.8 Btu/hr)
Seeking	17 Watts (58.0 Btu/hr)

Configuration Options

FRONT VIEW

Pin 1

Option Jumper Block   LED   Test Connector (factory use only)

Dwg File 50040

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

Reserved   W3   W2   W1   W4   Key   Reserved   Reserved   Key   PTY   WP   SP1   SP0   Reserved   SCSI ID (see below)   Remote LED+

35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1
36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

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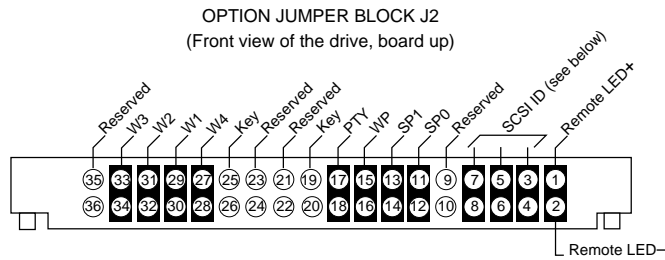
NOTE: Pins 4, 6, 8, 10, 12, 14, 16, 18, 22, and 24 are tied to Ground.

- **SCSI ID**

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

SCSI ID	Pin 7-8	Pin 5-6	Pin 3-4	SCSI ID	Pin 7-8	Pin 5-6	Pin 3-4
0	–	–	–	4	✓	–	–
1	–	–	✓	5	✓	–	✓
2	–	✓	–	6	✓	✓	–
3	–	✓	✓	7	✓	✓	✓

  ✓ = jumper installed

- **Interface Termination** (W4)

  Jumper installed at W4 (Default) - The drive provides termination for the interface lines; onboard termination is electrically *enabled.*

  Jumper omitted at W4 - The drive does not provide termination for the interface lines; onboard termination is electrically *disabled.*

- **Terminator Power** (W1, W2, W3)

  Jumper installed at W1 (Default) - The drive provides terminator power.

  Jumper installed at W2 - The host provides terminator power (via Interface Connector J1A).

  Jumper installed at W3 - The drive provides terminator power (via J1A) to the SCSI Bus.

- **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 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.

- **Remote LED**

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