

# Micropolis 4345WS Disk Drive

## Ultra SCSI (SCSI-3), Wide, Single-Ended, 68-Pin Unitized 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

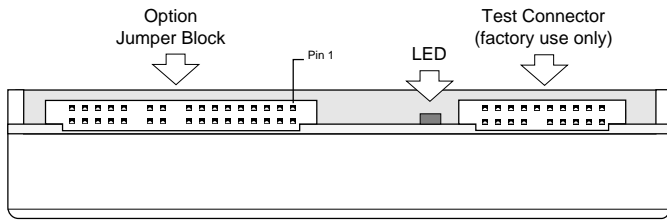
Interface	Ultra SCSI (SCSI-3)
Supports Full Common Command Set	Yes
Drivers/Receivers	Wide, Single-Ended

#### Power Requirements

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

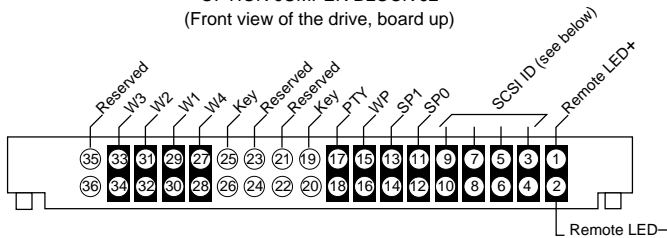
# Configuration Options

## FRONT VIEW



Dwg File 50050

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

### • 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.