

Micropolis 4345WD Disk Drive

Ultra SCSI (SCSI-3), Wide, Differential, 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

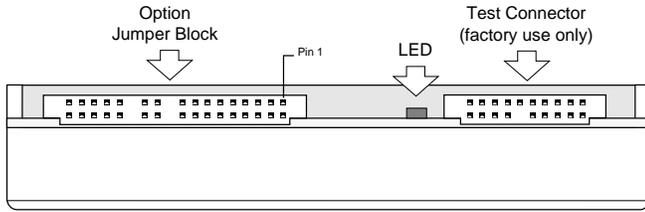
Interface	Ultra SCSI (SCSI-3)
Supports Full Common Command Set	Yes
Drivers/Receivers	Wide, Differential

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)

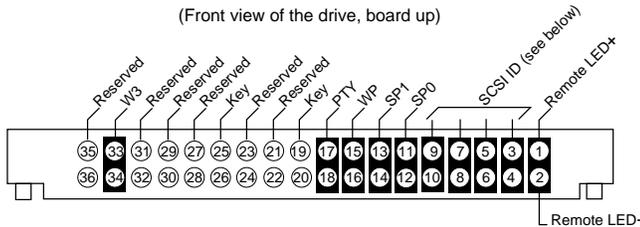
Configuration Options

FRONT VIEW



Dwg File
50054

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



NOTE: Pins 4, 6, 8, 10, 12, 14, 16, 18, 22, 24, 28, and 36 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

An external terminator provides termination for the interface lines.

Suggested end-of-cable terminator:
Methode DS2050-01-68D.

• +5V to BUS (W3)

Jumper installed at W3 (Default) - Drive provides terminator power (TERMPWR) to the SCSI Bus.

Jumper omitted at W3 - Host system provides TERMPWR.

• Spindle Control (SP0)

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

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

• Spindle Delay (SP1)

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

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

• Write Protect (WP)

Jumper installed at WP - Drive is write protected. Jumper omitted at WP (Default) - Drive is not write protected.

• BUS Parity Check (PTY)

Jumper installed at PTY - Drive neither generates nor detects parity.

Jumper omitted at PTY (Default) - 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.