

Micropolis 1991W (Wide, Single-Ended) Disk Drive Configuration/Specification Data Sheet

Formatted Capacity

Per Drive	9,091 MB
Bytes per Sector	512
Sectors per Track	Variable
Cylinders	4,477

Performance Specifications

Avg. Seek Time (includes read settling time)	12 msec
Avg. Rotational Latency	5.56 msec
Rotational Speed	5,400 rpm \pm .05%
Data Transfer Rate at Interface	
Synchronous	20 MB/sec
Asynchronous	10 MB/sec
Internal Data Rate	47 - 77 Mbits/sec
MTBF (power-on hours)	650,000 (Office Environment)
Positioner	Fully balanced rotary voice coil
Parking	Automatic park and lock

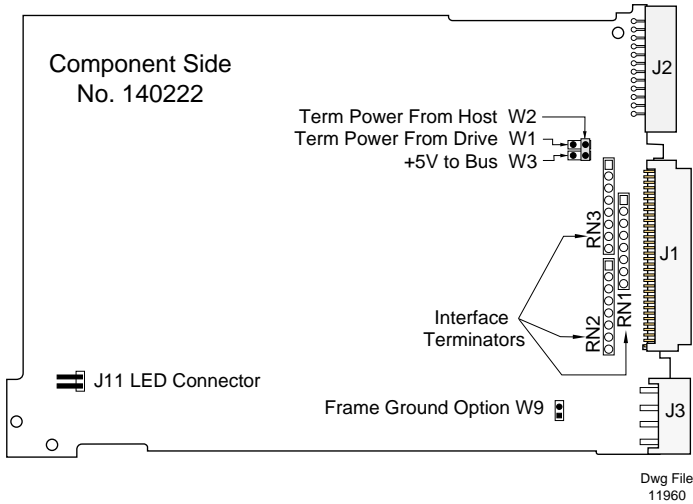
General Functional Specifications

Interface	Fast SCSI-2
Supports Full Common Command Set	Yes
Drivers/Receivers	Wide, Single-Ended

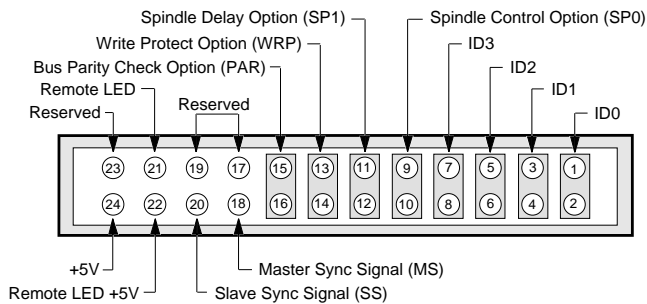
Power Requirements

+12V \pm 5% (average)	2.3 A
+12V \pm 5% (max during start-up)	4.8 A
+5V \pm 5% (average)	1.0 A
Power Dissipation, typical, idling	30 Watts (102.4 Btu/hr)
Power Dissipation, typical, seeking	33 Watts (112.6 Btu/hr)

Configuration Option Selection



Multi-Function Connector J2
(Rear view of the drive, board down)



NOTE: Pins 2, 4, 6, 8, 10, 12, 14, and 16 are tied to Ground.

- **SCSI ID (ID0, ID1, ID2, ID3)**

Up to sixteen devices (the host and fifteen targets) can be attached to the SCSI Bus. These are selected with jumpers on Multi-Function Connector J2.

In multiple-device systems, each device must have its own unique ID. SCSI ID 0 is Default.

SCSI ID	ID3	ID2	ID1	ID0	SCSI ID	ID3	ID2	ID1	ID0
0	-	-	-	-	8	✓	-	-	-
1	-	-	-	✓	9	✓	-	-	✓
2	-	-	✓	-	10	✓	-	✓	-
3	-	-	✓	✓	11	✓	-	✓	✓
4	-	✓	-	-	12	✓	✓	-	-
5	-	✓	-	✓	13	✓	✓	-	✓
6	-	✓	✓	-	14	✓	✓	✓	-
7	-	✓	✓	✓	15	✓	✓	✓	✓

✓ = jumper installed

- **Interface Termination (RN1, RN2, RN3)**

Terminators installed at RN1, RN2, and RN3 (Default) - The drive is terminated.

Terminators omitted - The drive is not terminated.

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

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

Jumper installed at W2 - The host provides terminator power.

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

- **Frame Ground (W9)**

Jumper installed at W9 - Frame ground is connected to logic ground.

Jumper omitted at W9 (Default) - Frame ground is not connected to logic ground.

- **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 the 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 - The 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 (WRP)**

Jumper installed at WRP - The drive is write protected.

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

- **BUS Parity Check (PAR)**

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

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

- **Spindle Synchronization**

Use of the MS and SS signals is optional.

These signals are used as spindle synchronization reference.