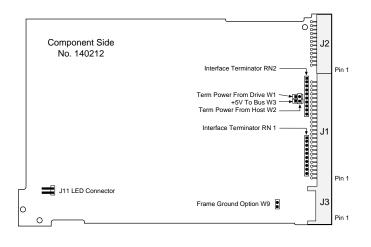
## Micropolis 1991 Disk Drive Configuration/Specification Data Sheet

Formatted Capacity			
Per Drive	9,091 MB		
Bytes per Sector	512		
Sectors per Track	Variable		
Cylinders	4,446		
Performance Specifications			
Avg. Seek Time (including settling time)	12 msec		
Avg. Rotational Latency	5.56 msec		
Rotational Speed	5400 rpm ± 0.5%		
Data Transfer Rate at Interface			
Synchronous	up to 10 MB/sec		
Asynchronous	up to 5 MB/sec		
Internal Data Rate	47 to 77 Mbits/sec		
MTBF (power-on hours)	650,000 (Office Environment)		
MTBF (power-on hours) Positioner	650,000 (Office Environment) Fully balanced rotary voice coil		
-			
Positioner	Fully balanced rotary voice coil		
Positioner Parking	Fully balanced rotary voice coil		
Positioner Parking General Functional Specifications	Fully balanced rotary voice coil Automatic park and lock		
Positioner Parking General Functional Specifications Interface	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2		
Positioner Parking General Functional Specifications Interface Supports Full Common Command Set	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2 Yes		
Positioner Parking General Functional Specifications Interface Supports Full Common Command Set Drivers/Receivers	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2 Yes		
Positioner Parking General Functional Specifications Interface Supports Full Common Command Set Drivers/Receivers Power Requirements	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2 Yes Single-ended		
Positioner Parking General Functional Specifications Interface Supports Full Common Command Set Drivers/Receivers Power Requirements +12V ±5% (average)	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2 Yes Single-ended 2.2 A		
Positioner Parking General Functional Specifications Interface Supports Full Common Command Set Drivers/Receivers Power Requirements +12V ±5% (average) +12V ±5% (max during start-up)	Fully balanced rotary voice coil Automatic park and lock Fast SCSI-2 Yes Single-ended 2.2 A 4.8 A		

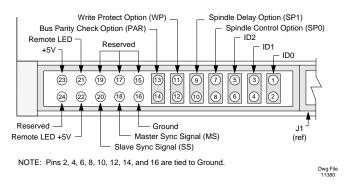
### **PC Setup**

When installing a Micropolis SCSI drive in a PC, the most common method is to run your SETUP program and define No Drives Present. The SCSI host adapter will automatically self-configure on power-up. To install the drive, follow the computer or host adapter manufacturer's instructions to use the on-board BIOS routine or software that was supplied with the host adapter. Note that the drive is shipped with the SCSI Address jumpered for ID0. If your system requires that the drive be set to a different SCSI Address, see the other side of this sheet for instructions. Three jumpers are provided in a poly bag for this purpose.

#### **Board Layout Drawing**



J2 MULTI-FUNCTION CONNECTOR



#### Configuration/Options

• SCSI Address. Jumpers at ID0, ID1, and ID2 select the SCSI address. Each SCSI device on one Host Adapter must have a unique address.

SCSI ID	ID2	ID1	ID0	SCSI II	D ID2	ID1	ID0
0		out		4	in	out	out
1 2	out out	out in	in out	5 6	in in	out in	in out
3	out	in	in	7 (SC	in SI ID 0	in ) is Defa	in ault)

• **Interface Termination.** If terminators are installed at RN1 and RN2 (default), the drive provides termination for the SCSI interface. If the terminators are not installed, the drive does not provide interface termination.

SCSI terminators are installed only in the end devices on the SCSI cable; remove the terminators from each of the other devices. The SCSI Host Adapter card and the last drive in the chain should have terminators. • **Terminator Power.** W1 and W2 select the source of terminator power (+5V) for interface terminators RN1 and RN2; W3 controls the drive supplying +5V to the bus.

W1 W2 W3

- Y N Drive provides terminator power. (Default)
- N Y Host provides terminator pwr via J1 pin 26 to RN1 and RN2.
  - Y Drive supplies +5V to the bus via J1 pin 26. (Default)

# • **Frame Ground Option.** A jumper at W9 selects the frame ground option.

JumperFrame ground connected to logic ground.No JumperFrame ground not connected to logic ground.<br/>(Default)

• **Spindle Options.** Jumpers at SP0 (J2 pins 7 and 8) and SP1 (J2 pins 9 and 10) control the spindle options.

SP0	SP1	
Ν	Ν	The drive starts the spindle motor at power-
		on. (Default)
Y	Ν	The drive waits for a Start Unit SCSI
		command to start the spindle motor.
Ν	Y	Spindle start-up is delayed based on SCSI ID
		address (12 seconds per ID)
		· · · ·

• Write Protect. A jumper at WP (J2 pins 11 and 12) selects the write protect option.

JumperThe drive is write protected.No JumperThe drive is not write protected. (Default)

• **Parity.** A jumper at PAR (J2 pins 13 and 14) selects the bus parity check option. The drive always **generates** parity regardless of this option.

JumperSCSI interface parity checking disabled.No JumperSCSI interface parity checking on. (Default)

• **Spindle Sync Termination.** Jumpers at MS (Master Sync, J2 pin 18) and SS (Slave Sync, J2 pin 20) control spindle sync termination. This depends on system configuration; i.e., Master Mode or Master Controller Mode.

MS SS

Y Y Spindle sync is terminated. (Default)

N N Spindle sync not terminated.

• **Remote LED.** A user-supplied LED may be connected to Remote LED (J2 pin 21).