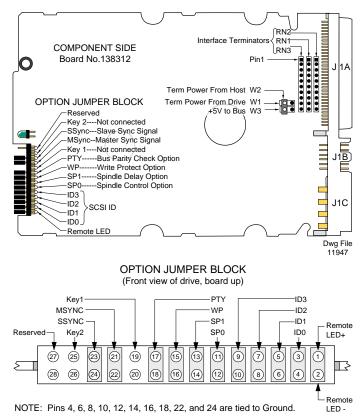
Micropolis 3243WAV (Wide, Single-Ended) Disk Drive Configuration/Specification Data Sheet

Formatted Capacity

Per Drive	4,294 MB			
Bytes per Sector	512			
Sectors per Track	Variable			
Cylinders	3,956			
AV Data Rate Specifications				
Max. Sustained	7.2 MB/sec			
Min. Sustained	4.0 MB/sec			
Performance Specifications				
Avg. Seek Time (includes read settling time)	8.9 msec			
Avg. Rotational Latency	4.17 msec			
Rotational Speed	7,200 rpm ± .05%			
Data Transfer Rate at Interface				
Synchronous	20 MB/sec			
Asynchronous	10 MB/sec			
Internal Data Rate	46 - 80 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)	0.9 A			
$+12V \pm 5\%$ (max during start-up)	1.66 A			
$+5V \pm 5\%$ (average)	0.7 A			
Power Dissipation, typical, idling	14 Watts (47.8 Btu/hr)			
Power Dissipation, typical, seeking	16 Watts (54.6 Btu/hr)			

Configuration Option Selection



SCSI ID

Up to sixteen devices (the host and fifteen targets) can be attached to the SCSI bus. These are selected with jumpers on the Option Jumper Block or on Auxiliary Connector J1B (use either but not both); see Note in next column for J1B usage. 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	-	-	-
1	-	-	-	1	9	1	-	-	1
2	-	-	1	-	10	1	-	1	-
3	-	_	1	1	11	1	-	1	1
4	_	1	-	-	12	1	1	-	-
5	_	1	-	1	13	1	1	-	1
6	_	1	1	-	14	1	1	1	-
7	-	1	1	1	15	1	1	1	1

 \checkmark = jumper installed

Interface Termination (RN1, RN2, and RN3)

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

If terminators omitted - drive is not terminated.

Terminator Power (W1, W2, W3)

Jumper installed at W1 (Default) - drive provides term power. Jumper installed at W2 - host provides term power. Jumper installed at W3 - drive provides term power to the BUS.

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 - 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.

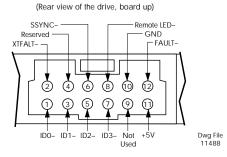
BUS Parity Check (PTY)

Jumper installed at PTY - Drive neither generates nor detects parity. Jumper omitted at PTY (Default) - Drive generates parity and has parity detection enabled.

Spindle Synchronization (MSYNC and SSYNC)

Use of the MSYNC and SSYNC signals is optional. These signals are used as spindle synchronization reference.

Auxiliary Connector J1B:



J1B is sampled at initialization for jumpers on pins 7-8, 5-6, 3-4, and 1-2 for SCSI ID3, ID2, ID1, and ID0 respectively; these connections (if not jumpered) are then released for use.

Drive Fault (XTFALT-)

Output signal negated (Default); indicates no drive fault. Output signal asserted; indicates a drive fault condition.

Slave Sync (SSYNC-)

Use is optional; used as spindle synchronization reference.

Remote LED-

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

Ground (GND)

Logic ground; provides signal ground.

+5 Volts (+5V)

5 VDC (1A max); used to drive external LEDs.

Write Protect (FAULT-)

Input signal negated (Default); drive is *not* write protected. Input signal asserted; drive is write protected.

A dash character (–) at the end of a signal name indicates it is asserted at the low level (active low) and negated at the high level.