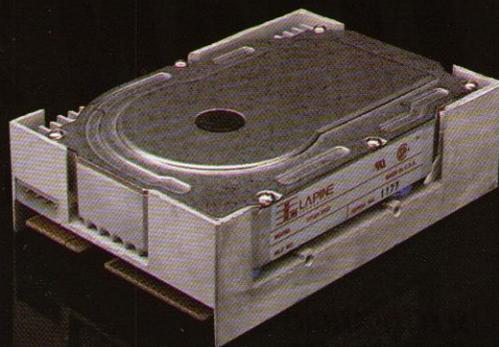




TITAN 20

The ruggedized 3.5-in. Winchester disk drive that works where it's needed.



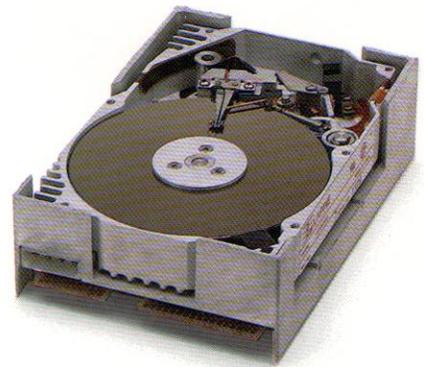
The Titan 20 from LaPine is the *only* drive with a patented head-lifter, which prevents the heads from ever contacting the disk surfaces. The Titan 20 is truly stiction free. Also, its unique box-within-a-box design* provides a four-point suspension that shock mounts the head/disk assembly within itself. The Titan provides 20 Mbytes of storage that survives virtually any hostile environment.

*patent pending.

495.00

TITAN 20

20-MBYTE 3.5-IN. WINCHESTER DISK DRIVE



SPECIFICATIONS Model No. LT200

Capacity (formatted)	
Per drive, Mbytes	20
Per track, bytes	10,416
Per sector, bytes	256
Sectors per track	32
Interface	
	ST412/506
Transfer Rate, Mbits/s	
	5
Access Times, ms†	
Track-to-track	15
Average	65
Maximum	130
<small>†Ramp mode, incl. head settling time; measurements taken after issuance of last step pulse from controller.</small>	
Average Latency, ms	
	8.33
Recording Density, BPI max.	
	12,268
Track Density, TPI max.	
	835
Rotational Speed, rpm	
	3,600 ± 1%
Disks	
	2
Recording Surfaces	
	4
Heads	
	4
Data Cylinders	
Active	612
Spare	4
Noise, dBA max.	
	40
Error Rates	
Soft read, bits	1 per 10 ¹⁰
Hard read, bits (16 tries)	1 per 10 ¹²
Seek	1 per 5 x 10 ⁶
Reliability	
MTBF, hours	28,000
MTTR, minutes	20
Preventive maintenance required	none
Service life, years	5

Temperature	
Operating	+4° to +50°C
Non-Operating	-40° to +60°C
Shock	
Operating	10g, 10 ms
Non-Operating	60g, 10 ms
Vibration	
Operating	0.048 in., 5-17 Hz; 0.73g, 18-150 Hz; 0.33g, 151-500 Hz
Non-Operating	0.16 in., 5-17 Hz; 2.50g, 18-500 Hz
Relative Humidity	
Operating	8% to 90% w/o condensation
Non-Operating	5% to 95% w/o condensation
Power	
+5Vdc ± 5%	0.52 amps, typical
+12Vdc ± 5%	0.74 amps, typical
	2.3 amps, max. starting
Dissipation	11.5 watts, average
Dimensions*	
Inches	1.63 x 4.00 x 5.75 HWD
Centimeters	4.13 x 10.2 x 14.5 HWD
<small>*Available in 5/4 in. full- or half-height package.</small>	
Weight	
Pounds	2
Kilograms	0.9



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