



MBA3 RC Series Catalog

- MBA3073RC : 73.5GB
- MBA3147RC : 147GB
- MBA3300RC : 300GB

One gigabyte (GB) = one billion bytes(1)



FEATURES

- High-speed access, 15,000rpm.
- Large capacity of up to 300GB.
- Serial Attached SCSI interface supports the high transfer speed up to 3Gbps.
- Suitable for mission critical servers and storage arrays.

Specifications

FUNCTIONAL SPECIFICATIONS

Disks	MBA3073RC	1
	MBA3147RC	2
	MBA3300RC	4
Heads	MBA3073RC	2
	MBA3147RC	4
	MBA3300RC	8
Rotational Speed	15,000min ⁻¹ (15,000rpm)	
Average Latency Time	2.0ms (typical)	
Seek Time	Minimum	Read 0.2ms (typical), Write 0.4ms (typical)
	Average	Read 3.4ms (typical), Write 3.9ms (typical)
	Maximum	Read 8.0ms (typical), Write 9.0ms (typical)
Physical Dimensions	Width	101.6mm
	Depth	147.0mm (maximum)
	Height	26.1mm (maximum)
Weight	0.8kg (maximum)	
Interface	Dual Serial Attached SCSI	
Power Consumption	Idle	13.06W (typical)
Energy Efficiency (2)	MBA3073RC	0.178W/GB (d Rank)
	MBA3147RC	0.089W/GB (e Rank)
	MBA3300RC	0.044W/GB (f Rank)
Data Transfer Rate	1.5Gbps, 3Gbps	
Buffer size (3)	16MB	
Acoustic Noise (4)	Idle	3.6Bels (typical)

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature(5)	Operating	5°C to 55°C (ambient) 5°C to 60°C (disk enclosure surface)
	Non-operating	-40°C to 70°C
	Gradient	20°C/h or less
Relative Humidity	Operating	5% to 95% RH (no
	Non-operating	5% to 95% RH (no
	Maximum wet bulb	29°C
Vibration	Operating	0.6mm [5Hz to 20Hz] 9.8m/s ² (1G) [20Hz to 300Hz]
	Non-operating	3.1mm [5Hz to 20Hz] 49m/s ² (5G) [20Hz to 300Hz]
Shock	Operating	637.4m/s ² (65G) [2ms
	Non-operating	2,451.7m/s ² (250G) [2ms
Power requirements		+5V±5%, +12V±5%

Specifications are subject to change without notice.

1 GB:

One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.

The formatted capacity is an estimate for 512 bytes per sector.

2 Rank:

Energy efficiency based on the Law Concerning the Rational Use of Energy indicates the value obtained by

3 MB:

One megabyte (MB) as 1,048,576 bytes for Hard Disk Drives' cache size.

Small portion of buffer memory is used for drive firmware control.

4 Bels:

A unit for indicating noise levels. 1 Bels is equivalent to 10 decibels.

5 °C:

degree C.

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