

MBD2 RC Series Catalog



FEATURES

- Rotational Speed 10,025rpm High performance 2.5-inch drive.
- Support SAS-2 (6Gbps SAS) Interface. ⁽⁶⁾
- Halogen-free⁽⁷⁾ Hard Disk Drive.

Specifications

FUNCTIONAL SPECIFICATIONS

Disks		MBD2147RC	1
		MBD2300RC	2
Heads		MBD2147RC	2
		MBD2300RC	4
Rotational Speed		10,025min ⁻¹ (10,025rpm)	
Average Latency Time		2.99ms (typical)	
Seek Time	Minimum	Read 0.2ms (typical), Write 0.4ms (typical)	
	Average	Read 3.8ms (typical), Write 4.3ms (typical)	
	Maximum	Read 8.0ms (typical), Write 9.0ms (typical)	
Physical Dimensions	Width	69.85mm	
	Depth	100.45mm (maximum)	
	Height	15.0mm	
Weight		220g or less	
Interface		SAS-2 (6Gbps SAS)	
Power Consumption	Idle	MBD2147RC	3.2W (typical)
		MBD2300RC	3.4W (typical)
Energy Efficiency ⁽²⁾		MBD2147RC	0.022W/GB (d Rank)
		MBD2300RC	0.011W/GB (e Rank)
Data Transfer Rate		600MB/s (maximum)	

Buffer size ⁽³⁾	16MB	
Acoustic Noise ⁽⁴⁾	Idle	2.9Bels (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 (non-condensing)
	Non-operating	5% to 95% RH (non-condensing, with packing)
	Maximum wet bulb	29°C
Vibration	Operating	0.6mm [5Hz to 20Hz] 9.8m/s ² (1G) [20Hz to 300Hz] or less
	Non-operating	3.1mm [5Hz to 20Hz] 49m/s ² (5G) [20Hz to 300Hz] or less
Shock	Operating	980m/s ² (100G) [1ms duration]
	Non-operating	3,920m/s ² (400G) [1ms duration]
Power requirements		+5V±5%, +12V±5%