

10,025 RPM

## 2.5-Inch SAS Enterprise Hard Disk Drives

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*State-of-the-art hard disk  
drives for your most demanding  
enterprise applications*

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MBF2300RC  
MBF2450RC  
MBF2600RC

Reinforcing its strong market position in small form factor hard disk drives, Toshiba introduces a new high-performance, power-efficient enterprise class, 2.5-inch SAS hard drive offering industry leading storage capacity of up to 600GB<sup>1</sup>. The MBF2-RC series drive features a 10,025 RPM spin speed, 6 Gb/sec SAS interface, and environmentally friendly low power consumption benefits.

With a top storage capacity of 600GB<sup>1</sup>, Toshiba's newest small form factor drive equals the highest capacity point currently available within the entire 2.5 and 3.5-inch form factor enterprise class segments. In addition to the low power consumption design of 2.5-inch hard drives, the MBF2-RC series features an enhanced power condition state technology enabling lower RPM spin speeds when not in use, allowing for up to approximately 21 - 28% reduction in power consumption.

The MBF2-RC series drive is designed to support enterprise applications where reliability, high capacity, and performance are required. Specific applications include mid-range volume servers, mainstream storage arrays, blade and rackmount servers, and other business-critical, power-conscious, data-intensive systems.

- Up to 600GB<sup>1</sup> of Storage Capacities
- Enhanced Power Condition State Technology
- 6 Gb/sec SAS
- 16MB Cache Buffer

# Hard Drive

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### Series Overview

	MBF2300RC	MBF2450RC	MBF2600RC
Drive Capacity	300GB <sup>1</sup>	450GB <sup>1</sup>	600GB <sup>1</sup>
Drive Interface	SAS 2.0, 2.1		
RoHS Compliant	Yes		
Transfer Rate to Host	6 Gb/sec		

### Performance

Track-to-track Seek	0.2ms typ. (Read), 0.4ms typ. (Write)		
Average Seek Time	4ms typ. (Read), 4.4ms typ. (Write)		
Rotational Speed	10,000 RPM		
Average Latency	2.99ms		
Buffer Size	16MB		

### Power Requirements

Voltage	5V (+/- 5%), 12V (+/- 5%)		
Spin up (start) Power	12V (+/-5%) @ 1.2A (peak), 1.5A (peak < 100us), 5V (+/-5%) @ 1.0A (peak)		
Low Power Idle	4.0 watts (max)		

### Physical Size

Dimensions (W) x (D) x (H)	69.85 mm (2.75") x 100.45 mm (3.95") x 15 mm (0.59")		
Weight	220 g, or less		

### Environmental

Temp - Operating	5° to 55°C (41° to °F)		
Temp - Non-Operating	-40° to 70°C (-40° to °F)		
Humidity - Operating	5% to 95% RH		
Humidity - Non-Operating	5% to 95% RH		
Vibration - Operating	(0.6mm) 5 to 20 Hz / 9.8 m/s <sup>2</sup> (1.0G) 20 to 300 Hz		
Vibration - Non-Operating	(3.1 mm) 5 to 20 Hz / 49 m/s <sup>2</sup> (5.0G) 20 to 300 Hz		
Shock - Operating	980 m/s <sup>2</sup> (100G) 1ms		
Shock - Non-Operating	3,920 m/s <sup>2</sup> (400G) 1ms		
Altitude - Operating	-1,000 to 10,000 ft		
Altitude - Non-Operating	-1,000 to 40,000 ft		

### Acoustics

Acoustics (idle)	2.9 bels or less		
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<sup>1</sup>One Gigabyte (1 GB) means 10<sup>9</sup> = 1,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 2<sup>30</sup> = 1,073,741,824 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

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