

Toshiba introduces new small form factor enterprise HDD line

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Toshiba Corp. today announced a new high-performance, low-power HDD product line for enterprise applications that draws on synergies achieved by the integration of Fujitsu's enterprise-directed magnetic drive business into Toshiba HDD business.

The new MBF2600RC family brings 2.5-inch drives into the enterprise space, with no compromise in capacity or performance. The line-up features a 600GB drive, currently the industry's highest capacity for 2.5-inch enterprise-class HDD, and rounds out the range with 300GB, and 450GB capacities, all offering maximum rotation speeds of over 10,000RPM.

Improvements to the [magnetic recording](#) head and disk's magnetic layer

gives the MBF2600RC an areal density of 595Mbit/mm² (384Gbps), highest [areal density](#) for 2.5-inch enterprise drives, and realizes 600GB capacity, the largest capacity yet available in the market including 3.5-inch drives. Combined with a rotation rate of over 10,000RPM, the line-up will meet the enterprise market's exacting standards with 2.5-inch form factor drives. Furthermore, the internal transfer rate in the MBF2600RC family is boosted by 13%, from 191.5MB/s to 216MB/s, compared with the previous generation MBD2300RC, due to improved linear recording density, and overall performance increased by realizing high speed seek time. The new drives also offer an optional drive-based encryption design that secures data when end of lease, during disposal and recycling. The range of storage capacities meets customer needs across a wide range of mission-critical IT equipment, from servers to large capacity storage systems.

The MBF2600RC family delivers significantly better environmental performance than MBD2300RC 2.5-inch drives. Advances include power management enhancement that allows the disk to spin at a slower rate when not being addressed, and achieve a low-power consumption of 2.5W. MBF2600RC also contributes a 45% improvement in [energy consumption](#) efficiency from the MBD2300RC. The MBF2600RC family is also compliant with the European Union's RoHS directive and halogen-free.

[Toshiba](#) meets the growing demand for smaller, 2.5-inch HDD that consumes less power than 3.5-inch drives while offering high level processing speeds, lower heat generation and a smaller footprint. Meeting the 3.5-inch performance level in power efficient 2.5-inch form factor will allow Toshiba to further enhance its HDD business and to meet growing demand from enterprise applications.

Source: Toshiba Corporation

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