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The Open Compute Project (OCP) Summit 2018 sees Seagate demonstrate the Exos X14-- a helium-based 14TB enterprise HDD promising "the industry's lowest power consumption, smallest footprint and best performance in its class."

The Exos X14 comes in the standard 3.5-inch format and features "Mach.2," an actuator technology allowing it to reach 480MB/s of sequential throughput. Recording comes through Heat Assisted Magnetic Recording (HAMR), a technology using tiny lasers to heat the recording surface to over 400°C for a split second. It allows for increasingly dense recording capacity, if with some endurance and reliability concerns. However Seagate insists its HAMR implementation is more than reliable, allowing for 6000 hours of data transfers (or over 3.2 petabytes of data).

The drive also promises an increase of 40% more petabytes per rack compared to Exos 10TB drives, a 10% weight reduction versus nearline drives, and a flexible design with more integration options and support for a greater number of workloads. Security is also included via Seagate Secure, as well as FIPS 140-2 level 2 and Common Criteria for Information Technology Security Evaluation (CC) certification.

Seagate is still to announce when the Exos X14 hits the market.

Go Seagate To Demonstrate Advanced Technology At OCP Summit 2018