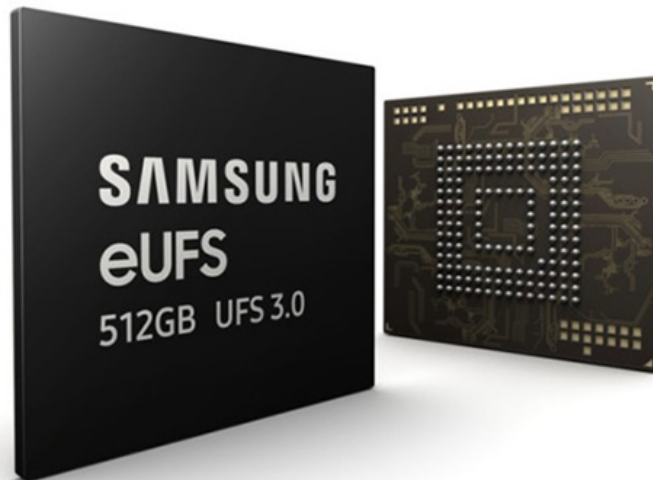


# Samsung's new memory chip incorporates EUFS 3.0 technology, recording speed of 2100MB / s, copying Full HD movies in just 3 seconds

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That's the 512GB memory chip that incorporates the world's first Universal Flash Storage (eUFS) technology for mobile devices. Most likely, it will appear on Samsung Galaxy Fold and Galaxy Note 10.



Although the new memory chip is not as big as the 1TB EUFS chip, it has super fast read / write speeds of 2100MB / s and 410MB / s - twice as fast as the 1TB chip.

\* Reference: Comparison of Samsung's internal memory performance

Storage Memory	Sequential Read Speed	Sequential Write Speed	Random Read Speed	Random Write Speed
512GB eUFS 3.0 (Feb. 2019)	2100MB/s (x2.10)	410MB/s (x1.58)	63,000 IOPS (x1.09)	68,000 IOPS (x1.36)
1TB eUFS 2.1 (Jan. 2019)	1000MB/s	260MB/s	58,000 IOPS	50,000 IOPS
512GB eUFS 2.1 (Nov. 2017)	860MB/s	255MB/s	42,000 IOPS	40,000 IOPS
eUFS 2.1 for automotive (Sep. 2017)	850MB/s	150MB/s	45,000 IOPS	32,000 IOPS
256GB UFS Card (Jul. 2016)	530MB/s	170MB/s	40,000 IOPS	35,000 IOPS
256GB eUFS 2.0 (Feb. 2016)	850MB/s	260MB/s	45,000 IOPS	40,000 IOPS
128GB eUFS 2.0 (Jan. 2015)	350MB/s	150MB/s	19,000 IOPS	14,000 IOPS
eMMC 5.1	250MB/s	125MB/s	11,000 IOPS	13,000 IOPS
eMMC 5.0	250MB/s	90MB/s	7,000 IOPS	13,000 IOPS
eMMC 4.5	140MB/s	50MB/s	7,000 IOPS	2,000 IOPS

Table comparing the speed of Samsung's memory chips.

Samsung said that with a phone using a new UFS chip, it only takes 3 seconds to copy a Full HD movie to a PC.

With this product, Samsung expects it to bring new breakthroughs in the mobile field. Currently, 512GB eUFS 3.0 memory chip production line is ready. 128GB and 512GB versions will be available later this month, while 256GB and 1TB models will be available in the second half of this year.

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