

HDD VS SSD



SSD

Speeds

far outpace HDD

In a random 4k write test,



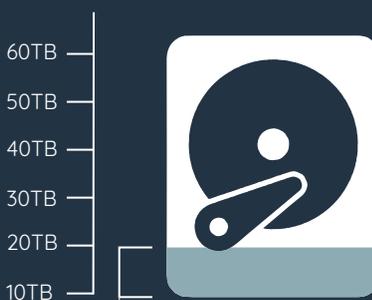
HDD performed under **208 IOPS**

SSD performed over **30,000 IOPS**

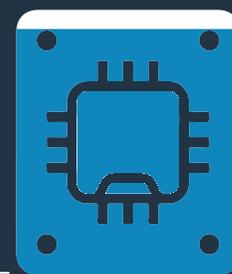
Flash memory reaches

Density Levels

HDD can never achieve



HDD capacity will reach the **20-40TB** range by 2020.



SSDs today hold capacities as high as **60TB**.

Compare

Reliability

HDDs are over **10x** more susceptible to failure

HDD failure rate:

3.5%

SSD failure rate:

0.3%

Energy Savings



HDDs consume **6-15 watts**



SSDs consume only **2-5 watts**

SSD & HDD vary in

Temp.



HDDs reach temperatures as high as **34-44°C** because of moving parts.

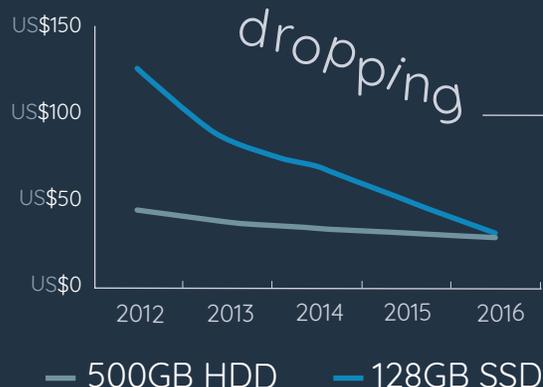


SSDs only reach **26-30°C**



Price

of SSD is



closing the gap between HDD and SSD.

However, SSDs still cost about **4x more** than HDD on a per GB basis.

What if you could have SSD at HDD Pricing?

Zadara Storage with Intel now offers SSD capacity at HDD pricing. To learn more about Zadara Storage as-a-Service offerings, visit bit.ly/ZadaraStorageCloud.

To start a free trial, visit: manage.zadara.com/register/.

Source: DRAMeXchange, March, 2016

*According to www.storagetechnology.com/?p=207 and www.backblaze.com/blog/hdd-versus-ssd-whats-the-diff/, results may vary.



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