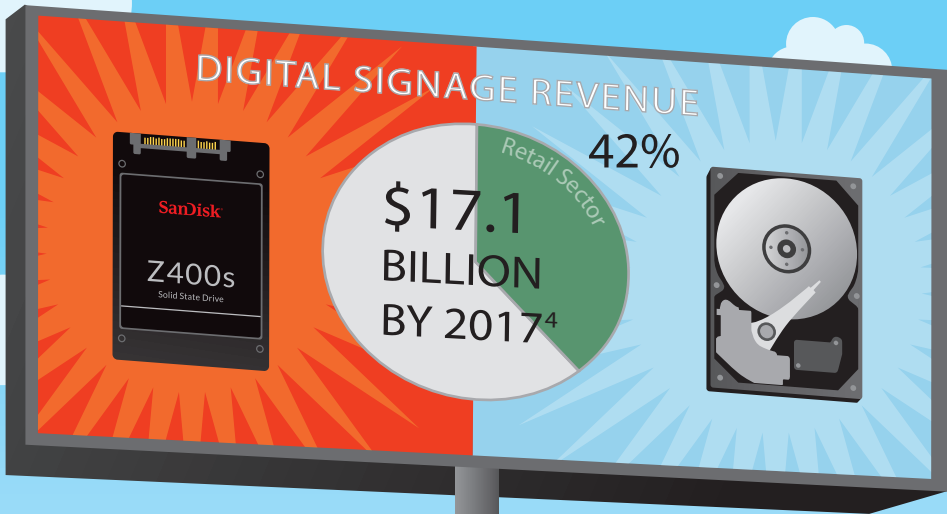


SOLID STATE VS. HARD DISK



20X SSD outperforms HDD by 20X¹

5X SSD is 5X more reliable than HDD²

1/20th SSD uses 1/20th the power of HDD³



PERFORMANCE	App Load/Response Time			SSD is 20x faster than HDD
	Random Data Rate (IOPS)	<p>READ RATE</p> <p>WRITE RATE</p> <p>■ = 1,000 IOPS</p>	<p>READ RATE</p> <p>WRITE RATE</p>	<p>SSD = Up to 33k IOPS HDD = 169 IOPS</p> <p>SSD = Up to 62k IOPS HDD = 169 IOPS</p>
	Sequential Data Rate (MB/S)	<p>READ RATE</p> <p>WRITE RATE</p> <p>● = 10 MB/second</p>	<p>READ RATE</p> <p>WRITE RATE</p>	<p>SSD = Up to 546 MB/second HDD = 156 MB/second</p> <p>SSD = Up to 342 MB/second HDD = 156 MB/second</p>
RESISTANCE	Shock			<p>SSD = 1,500G @ 0.5ms HDD = 350G @ 0.5ms</p>
	Vibration			<p>SSD = 5gRMS, 10-2,000Hz HDD = 0.5gRMS, 23 - 350Hz</p>
	Power Usage			<p>SSD = 30mW HDD = 817mW</p> <p>1/20th Power Consumption 1/20</p>
	Meantime Between Failure			<p>SSD = 1,750,000 Hours HDD = 750,000 Hours</p>
Moving Parts			<p>SSD = No moving parts HDD = 2 or more moving parts spinning</p> <p>\$200 Ave. cost of field repair⁵</p>	



1 Based on PCMark Vantage Secondary scores, Z400s vs. 5400 HDD.

2 <http://arstechnica.com/information-technology/2014/01/putting-hard-drive-reliability-to-the-test-shows-not-all-disks-are-equal/>

3 Based on average power consumption testing using MobileMark 2012 testing of Z400s vs. 5400RPM HDD.

4 Source: (IHS Research, "Global Digital Signage Market Nears \$14 Billion, Spurred by Real-Time Analytics in Retail", 10/29/ 2013

5 Source: AOPEN America