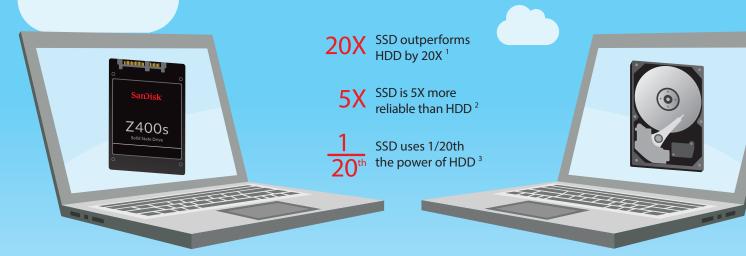
## SOLID STATE VS. HARD DISK





PERFORMANCE	App Load/ Response Time	
	Random Data Rate (IOPS)	WRITE RATE
	Sequential Data Rate (MB/S)  • = 10 MB/second	READ RATE  WRITE RATE
RESISTANCE	Shock	14
	Vibration	
	Power Usage	C
	Meantime Between Failure	
	Moving Parts	

	SSD is 20x faster than HDD
READ RATE WRITE RATE	SSD = Up to 33k IOPS HDD = 169 IOPS SSD = Up to 62k IOPS HDD = 169 IOPS
READ RATE  WRITE RATE	SSD = Up to 546 MB/second HDD = 156 MB/second SSD = Up to 342 MB/second HDD = 156 MB/second
AK	SSD = 1,500G @ 0.5ms HDD = 350G @ 0.5ms
	SSD = 5gRMS, 10-2,000Hz HDD = 0.5gRMS, 23 - 350Hz
U	SSD = 30mW 1/20 HDD = 817mW
	SSD = 1,750,000 Hours HDD = 750,000 Hours
	SSD = No moving parts HDD = 2 or more moving parts spinning



- 1 Based on PCMark Vantage Secondary scores, Z400s vs. 5400 HDD.
- 2 http://arstechnica.com/information- technology/ 2014/01/putting-harddrive-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