



## SanDisk® Z410 SSD (Solid State Drive)

UP TO HALF A TERABYTE OF SPEED AND POWER EFFICIENCY  
BRINGING SSD PERFORMANCE TO MORE PCS

The SanDisk Z410 is a value/performance SSD designed for essential-class to mainstream desktops and laptops. It can outperform HDDs by a factor of 24, while providing 5 times the reliability at 1/20th the power consumption\*, and ample capacity while serving as an affordable storage solution. Building upon the successful Z400s platform, Z410 is further optimized specifically for PC users. With faster write speeds, the Z410 SSD delivers a quick and responsiveness user experience for everyday PC applications, all in an affordable solution.

### SLC cache means better computing performance

The Z410 includes an SLC cache, which boosts burst write performance of typical PC usage. The combination of SLC and TLC blocks maximize read/write operations to improve responsiveness, giving users faster access to PC applications. This makes the Z410 the ideal storage solution for multi-tasking and typical PC workloads such office productivity, web browsing, email, casual gaming and audio/video entertainment.

### Build durable, reliable systems

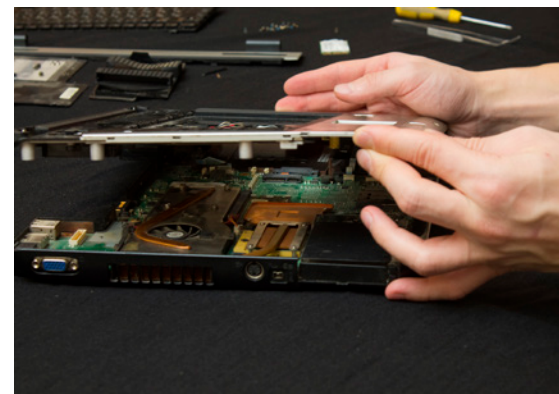
Designed with an LDPC error correction mechanism, the Z410 SSD delivers a reliable solution with endurance up to 120 terabytes written (TBW)<sup>2</sup>. A dedicated on-the-fly hardware core performs progressive error correction to minimize the impact on latency and performance, while maintaining low power usage. Its solid-state design means there are no moving parts, making it shock- and vibration-resistant, and much more reliable than traditional HDDs. This translates into lean BOM costs for PCs without sacrificing capacity, lower total cost of ownership, and a better, more productive end-user experience.



SATA SAS PCIe

#### Z410 KEY FEATURES

- SSD PERFORMANCE AND BATTERY-SAVINGS TO EVERYDAY PCS WITHOUT SACRIFICING CAPACITY
- HALF A TERABYTE MADE AFFORDABLE
- ENABLES A LEAN BOM COST WHILE INCREASING PERFORMANCE AND RELIABILITY FOR DESKTOPS AND LAPTOPS
- FOR IT DEPARTMENTS, REDUCES TCO OF COMPUTER SYSTEMS AND IMPROVES END USER EXPERIENCE
- IMPROVED RESPONSIVENESS AND STORAGE RELIABILITY WITH AN SLC CACHE, AND HOST WRITE ANALYSIS ALGORITHM
- LOWEST AVERAGE POWER CONSUMPTION
- LOW POWER WITH DEVSLP SUPPORT, ALLOWS FOR FAN-LESS DESIGNS AND MEETS GREEN LEGISLATION REQUIREMENTS



*A drop-in replacement, the Z410 SSD's 2.5" cased form factor means upgrading is quick and easy.*



## Lowest average power extends battery life

With lower power consumed during active use as well as during slumber and DEVSLP modes, the Z410 SSD features one of the lowest power draws of any SSD in the industry. This makes it ideal for laptops and desktops, battery-based platforms as well as for fan-less designs.

## Lower TCO for businesses

SanDisk SSDs can lower the total cost of ownership (TCO) by reducing downtime due to hard drive failures. They also offer lower latency and greater read/write speeds over traditional HDDs\*, so users may experience a noticeable improvement in responsiveness. IT departments can extend the useful life of their PC inventory by upgrading to the Z410 SSD, thus prolonging replacement cycles and maximizing asset value.

**Contact your vendor more information, or to begin ordering the Z410 SSD.**

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Z410-01-DS

## SanDisk® Z410 SSD Product Features and Specifications

Specifications are preliminary and subject to change

Device	SanDisk Z410 SSD		
<b>Form Factors</b>	2.5" 7mm		
<b>Interface</b>	SATA III (6 Gb/s) backwards compatible to SATA II (3 Gb/s) and SATA I (1.5 Gb/s)		
<b>Size &amp; Weight</b>	7.0mm x 69.85mm x 100.5mm @ 32 ± 0.5g		
<b>Performance<sup>2</sup> [4K QD32]</b>	<b>120GB<sup>1</sup></b>	<b>240GB</b>	<b>480GB</b>
Seq. Read up to (MB/s)	535	535	535
Seq. Write up to (MB/s)	410	440	445
Rand Read up to (IOPS)	36k	36k	37k
Rand Write up to (IOPS)	54k	66k	68k
Endurance (TBW) <sup>3</sup>	40	80	120
<b>Power<sup>4</sup></b>	<b>120GB</b>	<b>240GB</b>	<b>480GB</b>
Active Power (mW)	50	50	50
Slumber (mW)	30	30	30
DEVSLP (mW)	3	3	3
<b>Reliability</b>			
MTTF <sup>5</sup>	Up to 1,750,000 hours		
<b>Environmental</b>			
Operating Temperatures	0°C to 70°C		
Non-operating Temperature	-55°C to 85°C		
Operating Vibration	5.0 gRMS, 10 - 2000 Hz		
Non-operating Vibration	4.9 gRMS, 7 - 800 Hz		
Operating/Non-operating Shock	1,500 G @0.5 msec half sine		
Certifications	FCC, UL, TUV, KC, BSMI, VCCI		
Warranty <sup>6</sup>	3 years		

Specifications subject to change without notice.

<sup>1</sup> 1GB=1,000,000,000 bytes. Actual user storage less.

<sup>2</sup> Performance is based on the CrystalDiskMark benchmark using a 1000MB LBA range on Gigabyte GA-Z77X-UD5H desktop with Intel Z77 chipset, Intel i7-3770 3.4GHz, 8M, Ivy Bridge, Windows 8 64-bit SP1 using Intel iRST version 11.7.0.1013, secondary drive, C-state off. Performance may vary based on host device. 1 MB = 1,000,000 bytes. IOPS = input/output operations per second.

<sup>3</sup> Endurance of the Z410 SSD is calculated using JEDEC client workload (JESD219). TBW = terabytes written.

<sup>4</sup> Power measurements in 25°C. Based on internal testing using FW version with HIPM-enabled.

<sup>5</sup> MTTF - Mean Time To Failure based on internal testing using Telcordia stress part testing.

<sup>6</sup> 3 year warranty in regions not recognizing "limited". See www.sandisk.com/wug for more details.