



## CS410 | SATA | 2.5" SSD

SMART's CS410 SATA 2.5" solid state drives are designed to meet the demand for a cost-effective solution in general-purpose industrial applications, such as POS/Kiosk, embedded automation and lite-IPC, with advanced features that ensure the high level of operational stability and reliability over the lifetime of the SSDs.

Incorporating the 3D NAND technology, the CS410 SATA SSDs utilize an advanced DRAM-less controller design for the best balance in performance and power consumption. Advanced error detection and correction, and thermal management ensure exceptional data integrity and reliability under variable operating environments.



### Features & Benefits

- DRAM-less Controller Design
- 3D NAND Technology with High Endurance
- Thermal Throttling Management
- LDPC Error Detection / Correction Circuitry for Superior Data Reliability
- Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) Support

### Applications

- Edge Computing
- Industrial Automation Control
- POS Systems
- Networking Routers and Switches
- Single-Board Computers for Gaming

### Product Family Overview

Form Factor	Capacity	Sequential Performance
2.5" SSD	128GB to 1TB	R 550MB/s, W 450MB/s
M.2 2242 SSD	128GB to 512GB	R 550MB/s, W 500MB/s
M.2 2280 SSD	128GB to 1TB	R 550MB/s, W 450MB/s
mSATA SSD	128GB to 1TB	R 550MB/s, W 450MB/s

## Specifications

CS410   SATA   2.5" SSD	
NAND Type	TLC
<b>Performance</b>	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	128GB to 1TB
Sequential Read (maximum)	Up to 550 MB/s
Sequential Write (maximum)	Up to 450 MB/s
Random Read (maximum)	Up to 89K IOPS
Random Write (maximum)	Up to 64K IOPS
<b>Reliability</b>	
MTBF	> 1,500,000 hours
Endurance (JEDEC Client Workload) <sup>1</sup>	1TB: 1440 TBW 512GB: 720 TBW 256GB: 360 TBW 128GB: 180 TBW
Error Correction	LDPC
<b>Power</b>	
Input Voltage	VCC: 5 V ± 5%
<b>Environmental</b>	
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis, X, Y, Z in each direction
Vibration	20G rms 80-2000Hz, 1.52mm 20-80Hz, 3 axis
Operating Temperature	Commercial: 0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
<b>Physical</b>	
Length	100 mm
Width	69.85 mm
Height	6.9 mm

<sup>1</sup>Endurance is directly related to the User Specific Workload.

## Ordering Information

Part Number	Density
<b>CS410   SATA   2.5" SSD</b>	
<b>Commercial Operating Temperature (0°C to +70°C)</b>	
FDS251024TCYCYC282	1TB
FDS25512GTCYCYC282	512GB
FDS25256GTCYCYC282	256GB
FDS25128GTCYCYC282	128GB



For more information, please visit: [www.smartm.com](http://www.smartm.com)

*\*Product images are for promotional purposes only. Labels may not be representative of the actual product.*

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