



DuraFlash™

CS210 | SATA | M.2 2280 SSD

SMART's DuraFlash CS210 SATA M.2 2280 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 edge computing, 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 CS210 SATA M.2 2280 SSDs utilize an advanced DRAM-less controller design for the best balance in performance and cost. 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
- AES 256 Encryption for Data Security and Data Sanitize
- 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

Capacity	Sequential Performance
CS210 SATA M.2 2280 SSD	
120GB to 960GB	Up to 555MB /s Read; Up to 500MB/s Write

Specifications

CS210 SATA M.2 2280 SSD	
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	SATA 3.0 6Gb/s
Capacities	120GB to 960GB
Sequential Read (maximum)	Up to 555 MB/s
Sequential Write (maximum)	Up to 500 MB/s
Random Read (maximum)	Up to 54K IOPS
Random Write (maximum)	Up to 45K IOPS
Reliability	
MTBF	> 1,000,000 hours
Endurance (JEDEC Client Workload) ¹	960GB: 1264 TBW 480GB: 632 TBW 240GB: 316 TBW 120GB: 158 TBW
Error Correction	LDPC
Power	
Input Voltage	VCC: 3.3 V ± 5%
Environmental	
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
Physical	
Length	80 mm
Width	22 mm
Height	2.05 mm

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
CS210 SATA M.2 2280 SSD	
Commercial Operating Temperature (0°C to +70°C)	
FDM28960GTCYB111	960GB
FDM28480GTCYB111	480GB
FDM28240GTCYB111	240GB
FDM28120GTCYB111	120GB



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