





SATA 2.5" Drive Self-Encrypting Drive (SED) with AES 256-bit Encryption, TCG OPAL 2.0 MIL-STD-810G standards All available NAND geometry Industrial Temperature Major NAND suppliers Quantum Digital Technology industrial 2.5" SSDs are encased in aluminum enclosures for outstanding performance in rugged environments. The 2.5" form factor and SATA III interface allow easy installation into SATA-based systems. Quantum Digital Technologies enhanced endurance technologies will assure long years of dependable use.

Power Loss Protection technology options combines hardware and/or firmware solutions to ensure that data is preserved and protected during a sudden power failure. The design also protects the storage against data corruption by allowing the power loss protection (PLP) to manage power challenges such as inrush current, input overvoltage, incorrect cache flushing and more.

Quantum Digital Technology 2.5" SSDs comply with MIL-STD-810G standards. They support the S.M.A.R.T. ATA feature set and Advanced Wear Leveling algorithm for enhanced endurance.

Technologies & Add-On Services	Secure Erase	TCG Opal 2.0	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating
Custom	•		A	A	A

▲: Customization option available

Specifications

2.5" SSD					
Interface	SATA III 6 Gb/s				
Flash Type	SLC	3D TLC (pSLC mode)		3D TLC	
Form Factor	2.5"				
Operating Temperature (Tcase) ¹	-40°C to +85c			0°C to 70°C	
Power Loss Protection Options	Hardware + Firmware Based				
Optional SED Features	-			AES 256-bit Encryption, TCG Opal 2.0	
Capacity	8 GB to 256 GB	80 GB to 640 GB		120 GB to 1,920 GB	
Performance					
Sequential Read (MB/s) up to	520	560		560	
Sequential Write (MB/s) up to	420	520		520	
Random Reads IOPS (4K, QD32) up to	76,000	90,000		100,000	
Random Writes IOPS (4K, QD32) up to	74,000	88,000		91,000	
Endurance and Reliability					
Endurance (TBW) ² up to	21,333 TB	38,400 TB	25,600 TB	9,310 TB	
Reliability MTBF @ 25°C	>2,000,000 hours				
Reliability Number of Insertions	10,000 minimum				
Others					
Dimensions: L x W x H (mm)	100 x 69.9 x 9.2	00 x 69.9 x 9.2 100 x 69.9 x 7/9.2			
Certifications	CE, FCC CE, FCC, BSMI, UKCA, RoHS, REACH				
Warranty	5 years			2 years	

		2.5" SSI)			
Interface	SATA III6 Gb/s					
Flash Type	3D TLC					
Form Factor			2.5"			
Operating Temperature	-40°C to 85°C	0°C to 70°C	0°C to 70°C			
Power Loss Protection Options	Hardware + Firmware Based		Firmware Based			
Optional SED Features	AES 256-bit Encryption, TCG Opal 2.0		-			
Capacity	120 GB to 1,920 GB		32 GB to 1 TB			
Performance						
Sequential Read (MB/s) up to	560		560			
Sequential Write (MB/s) up to	520		525			
Random Reads IOPS (4K, QD32) up to	100,000		72,000			
Performance Random Writes IOPS (4K, QD32) up to	91,000		85,000			
	Endurance and	d Reliability				
Endurance (TBW) ² up to	5,585	TB	2,792 TB			
Reliability MTBF @ 25°C	>2,000,000 hours					
Reliability Number of Insertions	10,000 minimum					
Others						
Dimensions: L x W x H (mm)	100 x 69.9 x 7/9.2		100 x 69.9 x 7			
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH					
Warranty	2 years					

SATA SSD

Capacity	Operating Temperature	Power Loss Protection	SED	P/N
	-40°C to 85°C	Hardware + Firmware Based	-	Custom
16GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
32GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
64GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
128GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
256GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
120GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
240GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
480GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
960GB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
1.92TB	-40°C to 85°C	Hardware + Firmware Based	-	Custom
120GB	0°C to 70°C	Hardware + Firmware Based	-	Custom
240GB	0°C to 70°C	Hardware + Firmware Based	-	Custom
480GB	0°C to 70°C	Hardware + Firmware Based	-	Custom
960GB	0°C to 70°C	Hardware + Firmware Based	-	Custom
1.92TB	0°C to 70°C	Hardware + Firmware Based	-	Custom
32GB	0°C to 70°C	Firmware Based	-	Custom
64GB	0°C to 70°C	Firmware Based	-	Custom
128GB	0°C to 70°C	Firmware Based	-	Custom
256GB	0°C to 70°C	Firmware Based	-	Custom
512GB	0°C to 70°C	Firmware Based	-	Custom
128GB	0°C to 70°C	Firmware Based	-	Custom
256GB	0°C to 70°C	Firmware Based	-	Custom
512GB	0°C to 70°C	Firmware Based	-	Custom
1TB	0°C to 70°C	Firmware Based	-	Custom