

# CS/CP SSD Product Comparison Chart



	CS310				CS410				CP2700	CP3000		CP4100	CP6800			
Interface	SATA 3.0 6Gb/s				SATA 3.0 6Gb/s				PCIe Gen3 x4	PCIe Gen4 x4		PCIe Gen4 x4	PCIe Gen4 x4			
Form Factor	2.5"	M.2 2242	M.2 2280	mSATA	2.5"	M.2 2242	M.2 2280	mSATA	M.2 2280	M.2 2280	M.2 2280	M.2 2280	M.2 2230	M.2 2242	M.2 2280	
NAND Flash Type	3D TLC				3D TLC				3D TLC	eTLC	eTLC (OP 28%)		eTLC	3D TLC		
Capacity	128GB-1TB				128GB-1TB	128GB-512GB	128GB-1TB	128GB-1TB	128GB-1TB	960GB-3840GB	1600GB-3200GB		480GB-1920GB	256GB to 2TB		
Sequential Read/Write (Max.)	560MB/s Read 520MB/s Write	560MB/s Read 510MB/s Write	560MB/s Read 520MB/s Write	560MB/s Read 510MB/s Write	550MB/s Read 450MB/s Write	550MB/s Read 500MB/s Write	550MB/s Read 450MB/s Write	550MB/s Read 450MB/s Write	3400MB/s Read 3100MB/s Write	3300MB/s Read 2900MB/s Write		6800MB/s Read 2050MB/s Write	6200MB/s Read 5450MB/s Write			
4K Random Read/Write (Max.)	95K IOPS Read 65K IOPS Write	88K IOPS Read 62K IOPS Write	96K IOPS Read 71K IOPS Write	60K IOPS Read 42K IOPS Write	89K IOPS Read 64K IOPS Write	76K IOPS Read 71K IOPS Write	89K IOPS Read 64K IOPS Write	76K IOPS Read 64K IOPS Write	560K IOPS Read 410K IOPS Write	380K IOPS Read 50K IOPS Write	380K IOPS Read 110K IOPS Write	750K IOPS Read 600K IOPS Write	900K IOPS Read 900K IOPS Write			
<b>Reliability</b>																
TBW	128GB: 150 TBW 256GB: 300 TBW 512GB: 600 TBW 1TB: 1200 TBW (JEDEC Client Workload)				128GB: 180 TBW 256GB: 360 TBW 512GB: 720 TBW 1TB: 1440 TBW (JEDEC Client Workload)				128GB: 185 TBW 256GB: 375 TBW 512GB: 750 TBW 1TB: 1500 TBW (JEDEC Client Workload)	960GB: 1700 TBW 1920GB: 3500 TBW 3840GB: 7000 TBW (JEDEC Enterprise Workload)	1600GB: 8600 TBW 3200GB: 17200 TBW (JEDEC Enterprise Workload)	480GB: 850 TBW 960GB: 2000 TBW 1920GB: 4000 TBW (JEDEC Enterprise Workload)	256GB: 340 TBW 512GB: 680 TBW 1TB: 1360 TBW 2TB: 2720 TBW (JEDEC Client Workload)			
MTBF	> 3,000,000 hours				> 1,500,000 hours				> 1,000,000 hours	> 2,000,000 hours	> 2,000,000 hours	> 2,000,000 hours	> 2,000,000 hours			
DWPD	-				-				-	1	3	1	-			
<b>Environmental</b>																
Operating temperature	I-temp: -40°C to +85°C				C-temp: 0°C to +70°C				C-temp: 0°C to +70°C	C-temp: 0°C to +70°C		C-temp: 0°C to +70°C	C-temp: 0°C to +70°C			
Storage Temperature	-55°C to +95°C				-40°C to +85°C				-40°C to +85°C	-40°C to +85°C		-40°C to +85°C	-40°C to +85°C			
<b>Physical</b>																
Length	100 mm	42 mm	80 mm	50.8 mm	100 mm	42 mm	80 mm	50.8 mm	80 mm	80 mm		80 mm	30 mm	42 mm	80 mm	
Width	69.85 mm	22 mm	22 mm	29.85 mm	69.85 mm	22 mm	22 mm	29.85 mm	22 mm	22 mm		22 mm	22 mm	22 mm	22 mm	
Height	6.8 mm	3.6 mm	3.6 mm	4.85 mm	6.9 mm	3.5 mm	2.05 mm	3.5 mm	2.05 mm	3.6 mm		3.65 mm	2.15 mm 2.3 mm (2TB)	2.15 mm 2.3 mm (2TB)	2.15 mm 2.3 mm (2TB)	
<b>Features</b>																
With DRAM Cache											■	■	■			
LDPC	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
AES-256	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
TCG Opal 2.0											■	■	■	■	■	
Thermal Throttling	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Wear Leveling	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Garbage Collection	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
TRIM	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Low Power Management (DIPM/HIPM Mode)	■	■ (DIPM Mode only)	■	■												
DLMC Firmware update					■	■	■	■			■	■	■	■	■	
Sanitize (Crypto Erase/Block Erase)												■				