

Enterprise Series SSD

- Adopts the latest BiCS5 112-layer 3D NAND Flash memory technology
- Optimized QoS to improve latency and stability
- Supports CoreGlacier™, DataDefender™ and End-to-End Data Protection technologies
- Supports AES 256-bit hardware encryption and Signed Firmware technology
- Supports advanced power protection technology to ensure data integrity under abnormal power supply conditions



AES



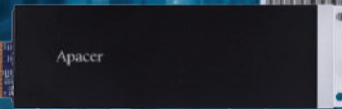
CorePower



TCG Opal 2.0



End-to-End Data Protection



Model Name	PV19E		PV16E		PV93E		PV25E		ST18E		SV24E	
Interface	Gen4 x4		Gen4 x4		Gen4 x4		Gen4 x4		SATA III		SATA III	
NAND Flash Type	Hynix V6 eTLC		Kioxia BiCS5 eTLC		Kioxia BiCS5		Kioxia BiCS5		Kioxia BiCS5		Kioxia BiCS5	
Form Factor	U.3		2280		22110	E1.S	2280		2.5"		2.5"	2280
Workload	Mixed Workload	Write intensive	Mixed Workload		Mixed Workload		Mixed Workload		Mixed Workload		Mixed Workload	
Capacity	1.92TB~30.72TB	1.6TB~25.60TB	480GB~1.92TB		480GB~1.92TB	480GB~3.84TB	480GB~3.84TB		480GB~7.68TB		240GB~1.92TB	
Seq. Read / Write Performance (MB/sec)	7400 / 6800		5700 / 2200		7420/6540	7460/6415	3700/3485		530 / 500		555 / 510	
Sustain Rnd.Read/Write(IOPS)	1600k/200k	1700k/480k	774K / 59K		908K / 30K	926K/85K	116K/22K		97K/83K		96K/10K	
DWPD	1 / 5y	3 / 5y	1 / 5y		1 / 5y		1 / 5y		1 / 5y		1.32 / 5y	
Standard / Extended Operating Temperature (°C)	0°C ~ 70°C		0°C ~ 70°C		0°C ~ 70°C		0°C ~ 70°C		0°C ~ 70°C		0°C ~ 70°C	
Latency (QD1)	Read: 90 µs Write: 15 µs		Read: 84 µs Write: 29 µs		Read: 65 µs Write: 25 µs	Read: 65 µs Write: 9 µs	Read: 91 µs Write: 93 µs	Read: 145µs Write: 25 µs		Read: 110 µs Write: 24 µs		
Power Consumption	Idle: 8.5W Active: 25W		Idle: 3.36W Active: 11.55W		Idle: 1.96 W Active: 9.55 W	Idle: 2.01W Active: 10.96W	Idle: 1.07W Active: 6.16W	Idle: 1.3W Active: 3.3W		Idle: 0.5W Active: 2.0W		
Features	AES, TCG Opal, CorePower		AES, CorePower		AES, CorePower		AES, CorePower		AES, CorePower		AES, TCG Opal, CorePower	
Sidefill	NO		Yes		Yes		Yes		No		Optional	Yes

