

Interface	SATA III		
Form Factor	2.5"(U.2)	M.2 2280	M.2 2242
NAND Flash	3D TLC		
Capacity <sup>1</sup>	240GB to 7680GB	240GB to 1920B	120GB to 240GB
<b>Performance<sup>2</sup> (up to)</b>			
Sequential Read	550 MB/s	550 MB/s	550 MB/s
Sequential Write	520 MB/s	520 MB/s	320 MB/s
4K Random Read	88K IOPS	87K IOPS	84K IOPS
4K Random Write	98K IOPS	94K IOPS	72K IOPS
<b>Power (up to)</b>			
Supply Voltage	5V ± 5%	3.3V ± 5%	3.3V ± 5%
Active (Average)	4.9W	2.1W	2W
Idle	1.8W	0.9W	1W
<b>Temperature</b>			
Operating	0°C~70°C -40°C~85°C		
Non-Operating	-40°C~85°C		
Advanced Features	<ul style="list-style-type: none"> <li>• Self Encrypting Function(Optional): AES+TCG OPAL 2.0</li> <li>• Security Function(Optional): Write Protect, Quick Erase, Military Erase</li> <li>• Thermal Protection Mechanism(Thermal Throttling)</li> <li>• Power Loss Protection(pFail) circuit (Optional on 2.5" 480GB~3840GB)</li> <li>• Power Loss Protection(pFail) circuit (Optional on M.2 2280 240~960GB)</li> <li>• Power Loss Protection(pFail) circuit (Default on M.2 2242)</li> <li>• Intelligent FW technology on Data loss Protection :             <ol style="list-style-type: none"> <li>1) Data Loss Protection End to End Data Path Protection (ETEDPP)</li> <li>2) SmartFlush™</li> <li>3) GuaranteedFlush™ (Optional)</li> </ol> </li> <li>• Intelligent FW technology on Data Reliability             <ol style="list-style-type: none"> <li>1) SamrECC™: LDPC + RAID ECC</li> <li>2) Cross Die Bad Block Management</li> <li>3) SmartRefresh™</li> </ol> </li> </ul>		

<sup>1</sup> 1GB = 1,000,000,000 bytes

<sup>2</sup> 1MB/s = 1,000,000 bytes / second