

Interface	NVMe PCIe Gen 3 x 2		NVMe PCIe Gen3x2	NVMe PCIe Gen 3 x 2
Form Factor	M.2 2280	M.2 2242	CFX™	BGA SSD 345-ball (11.5 x 13 mm)
NAND Flash	3D TLC			
Capacity <sup>1</sup>	128GB to 2048GB	128GB to 2048GB	128GB to 1024GB	64GB to 512GB
<b>Performance<sup>2</sup> (up to)</b>				
Sequential Read	2500 MB/s	2500 MB/s	1700 MB/s	1730 MB/s
Sequential Write	2100 MB/s	2100 MB/s	1400 MB/s	1180 MB/s
4K Random Read	230K IOPS	230K IOPS	210K IOPS	195K IOPS
4K Random Write	390K IOPS	390K IOPS	295K IOPS	245K IOPS
<b>Power (up to)</b>				
Supply Voltage	3.3V ± 5%	3.3V ± 5%	3.3V ± 5%	2.45V ~2.75V, Normal: 2.5V
Active (Average)	3750mW	3750mW	2900mW	1550mW
Idle	70mW	70mW	70mW	15mW
L1.2	2mW	2mW	2mW	0.8mW
<b>Temperature</b>				
Operating	0°C~70°C		0°C~70°C	
Non-Operating	-40°C~85°C		-40°C~85°C	
Advanced Features	<ul style="list-style-type: none"> <li>• Self Encrypting Function(Optional): AES, TCG OPAL, TCG Pyrite</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> </ol> </li> <li>• Intelligent FW technology on Data Reliability               <ol style="list-style-type: none"> <li>1) SmartECC™: LDPC + RAID ECC</li> <li>2) SmartRefresh™</li> </ol> </li> <li>• Thermal Protection Mechanism</li> <li>• Support HMB(Host Memory Buffer), Default Disable</li> <li>• Security Function(Optional): Write Protect, Quick Erase</li> </ul>		<ul style="list-style-type: none"> <li>• End to End data path protection</li> <li>• Thermal Throttling</li> <li>• LDPC + RAID ECC</li> <li>• SmartRefresh™</li> <li>• Drive Log</li> <li>• Support HMB(Host Memory Buffer)</li> <li>• Support TCG OPAL / Pyrite</li> <li>• Support Three Speed Mode:               <ol style="list-style-type: none"> <li>1) Mode 0_PS0: High speed mode (power&lt;1.6W)</li> <li>2) Mode 1_PS1: Middle speed mode (Max power&lt;1W)</li> <li>3) Mode 2_PS2: Low speed Mode (Seq. Read &gt;350 MB/s)</li> </ol> </li> <li>• RPMB</li> <li>• Boot Partition</li> <li>• Support APST</li> <li>• Support ASPM</li> <li>• Support L1.2</li> </ul>	

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

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