

Intel_UPE_SpecificationsChart_2021_09_30 (3)

UPE Compare Intel® Products	
09/30/2021 08:54:30 AM	
	Intel® SSD 670p Series (512GB- M.2 80mm PCIe 3.0 x4- 3D4- QLC)
Essentials	
Product Collection	Intel® SSD 6 Series
Code Name	Products formerly Keystone Harbor
Capacity	512 GB
Status	Launched
Launch Date	Q1 '21
Lithography Type	3D4 QLC
Recommended Customer Price	\$64.00
Use Conditions	PC/Client/Tablet
Performance Specifications	
Sequential Bandwidth - 100% Read (up to)	3000 MB/s
Sequential Bandwidth - 100% Write (up to)	1600 MB/s
Power - Active	80 mW
Power - Idle	25 mW
Reliability	
Vibration - Operating	2.17 GRMS (5-700Hz)
Vibration - Non-Operating	1 500 G/0.5 ms
Shock (Operating and Non-Operating)	Operating; 1 000 G/0.5 ms --Non Operation; 1 500 G/0.5 ms
Operating Temperature Range	0°C to 70°C
Operating Temperature (Maximum)	70 °C
Operating Temperature (Minimum)	0 °C
Endurance Rating (Lifetime Writes)	185 TBW
Mean Time Between Failures (MTBF)	1.6 million hours
Uncorrectable Bit Error Rate (UBER)	<1 sector per 10 ¹⁵ bits read
Warranty Period	5 yrs
Package Specifications	
Form Factor	M.2 22 x 80mm
Interface	PCIe 3.0 x4 NVMe
Advanced Technologies	
Enhanced Power Loss Data Protection	No
Hardware Encryption	AES 256 bit
High Endurance Technology (HET)	No
Temperature Monitoring and Logging	No
End-to-End Data Protection	Yes
Intel® Smart Response Technology	Yes
Intel® Rapid Start Technology	Yes
Intel® Remote Secure Erase	No