

**Intel® SSD 670p Series**  
**512GB, M.2 80mm PCIe 3.0 x4, 3D4, QLC**

Référence SSDPEKNU512GZX1



## 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
• 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
• 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 <sup>15</sup> 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

---