

Lahitkaya

M.2 2280 SATA III SSD

General

- Form Factor: M.2
- Capacities: 240GB, 480GB
- Available in NAND Types
 - 3D TLC Toshiba NAND
 - P/E cycles: 3,000
- Supports TRIM, and SMART

Bandwidth Performance Specifications (CDM)

- Maximum Sequential Read: Up to 570 MB/s
- Maximum Sequential Write: Up to 510 MB/s

Read and Write IOPS Specifications (CDM)

- Random 4Kb Reads: Up to 76K IOPS
- Random 4Kb Writes: Up to 74K IOPS

Power Specifications

- Max Active: 3600mW
- Active Average (typical): 2500mW
- Idle (No ALMP): up to 2500 mW
- Slumber: up to 100mW

Reliability

- Mean Time Between Failures (MTBF): >1,750,000 hours
- UBER: 1 sector per 10^{16} bits read
- Warranty: 3 years or max TBW whatever happens first



Built with a SMI SM2259 controller, the Unigen Lahitkaya M.2 SSD is ideal for energy efficient computing, reducing access times, and provides a durable alternative to conventional hard disc drives with superior shock resistance. The proprietary space manager architecture in the controller maximizes read/write data rate performance to and from the host and flash memory, eliminating firmware delays during sector read and write operations. The SMI SM2259 flash processor, combined with tailored firmware, provides complete ATA disk emulation, which ensures complete compatibility with a wide range of operating systems. Designed for ultimate reliability, Unigen Lahitkaya SSD's have an excellent mean time before failure (MTBF) ensuring reliability over long term usage and come backed by a 3-year limited warranty and dedicated technical and engineering support for OEM clients.

PRODUCT SPECIFICATIONS

Appearance

Dimensions	88.00mm x 22.00mm x 2.30mm
Weight	Up to 90 grams
Form Factor	M.2

Interface

Interface	SATA III M.2 2280
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Storage

Flash Type	TLC, iTLC
Capacity	960GB, 480GB, 240GB, 120GB

Operating Environment

Storage Temperature	Operating: 0°C to 70°C (C-Temp) ; Operating: -40°C to 85°C (I-Temp) ; Non-Operating: -40°C to 85°C
Operating Humidity	5% to 95% , non-condensing
Shock	Operating: 1,000G. Duration 0.5ms, half sine wave
Vibration	Operating: 2.17 gms (5-700 Hz) ;Non-operating: 3.13 gms (5-800 Hz)

Power

Power Consumption (Active)	up to 3600mw
Power Consumption (Idle)	Up to 1000mW

PRODUCT SPECIFICATIONS CONT.

Performance	
Sequential Read (max.)	Up to 570
Sequential Write (max.)	Up to 510
Mean Time Between Failures	> 1,750,000 hours
Technology	
Power Loss Protection	Yes
DRAM Cache	Yes
Error Correction Codes	Yes

ORDERING INFORMATION

Capacity	Part Number
240GB	UBM2SMR240HID1-HTI-UGN
480GB	UBM2SMR480HID1-ITI-UGN