

Phuket

Unigen mSATA III

General

- mSATA MO-300 Form Factor
- Capacities: 12GB, 30GB, 64GB, 128GB
- MLC NAND Flash Supported
- Automatic AES-256 and AES-128 hardware double encryption
- TCG Opal 2.0 and eDrive security (optional add-on)
- Seagate® SandForce SF2241 processor supports TRIM and SMART
- Highly intelligent block management and wear leveling optimizes SSD longevity



The Unigen mSATA are case-less solid state drives that provide low power and high performance in an ultra small form factor ideal for highly portable or embedded systems.

The Unigen mSATA SSD's are featured with power management schemes to reduce power consumption down to below 2 Watts in full idle mode.

It's dimensions result in an effective volume that is 20x less than an enclosed 2.5" solid state drive, and 10x less than a 1.8" solid state drive.

With SATA 6Gbps performance, the Unigen mSATA SSD's provide the maximum bandwidth to deliver sustained and effective sequential read/write performance up to 500MB/s, and random read/write IOPS up to 60,000, enabling mobile, embedded and small form factor systems to break through the bandwidth limitations imposed by 3Gb/s SATA and other often used solutions like USB or CompactFlash™ cards.

Bandwidth Performance Specifications

- Maximum Sequential Read/Write:
Up to 500MB/s (@ 128KB blocks)
- Random Read/Write IOPS:
Up to 60,000 (@ 4KB blocks)

Power Specifications

- Active (typical): 1.8W
- Idle (typical): .4W

Reliability

- Mean Time Between Failures (MTBF): >1,000,000 Hours
- Up to 55 bits correctable per 512-byte sector (BCH)

PRODUCT SPECIFICATIONS

Maximum Read, Write, and Sustained Write Bandwidth (MB/s)

Metric	32GB MLC	64GB MLC	128GB MLC
Max Read	500MB/s	500MB/s	500MB/s
Max Write	500MB/s	500MB/s	475MB/s
Based on 128k Data Patterns			

Maximum 4k Random IO/second (IOPS)

Metric	32GB MLC	64GB MLC	128GB MLC
4Kb Random Read	60,000	60,000	60,000
4Kb Random Write	60,000	60,000	60,000
Based on 4K Random CDM			

ORDERING INFORMATION

Model	NAND Type	Temp Option	Capacity
UBA2S0316H0IS1-CTC-UGN	SLC	I-Temp	16GB
UBA2S0330H0INM1-ETG-UGN	MLC	I-Temp	30GB
UBA2SMN64H0IS1-ETC-UGN	SLC	I-Temp	64GB
UBA2SMN128HIS1-ETC-UGN	SLC	I-Temp	128GB