Ramaceto

KEY FEATURES

- Compliant with PCIe Express 3.1
- End-to-end data path protection with CRC parity (512Byte + 2Byte)
- Built-in AES-128/256-bit encryption
- Error Correction Codes (ECC)
- TCG OPAL 2.0 compliant
- Hardware SHA256 and TRNG
- Enterprise Triple-Level Cell (B17A)
- SMI Controller SM2262EN processor supports TRIM, and SMART

The Unigen Ramaceto M.2 2280 PCIe Gen 3x4 SSD is specifically designed to address enterprise storage and computing applications where demanding performance, reliability, and the total cost of ownership (TCO) are significant factors. Built with the SMI 2262EN controller, Unigen Ramaceto offers native support for a high-performance NVMe/AHCI PCIe® Gen 3 host interface. 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.

PRODUCT SPECIFICATIONS

Product Family	Description
Form Factor	M.2 2280
Dimensions	22.0 x 80.0 x 2.23 (mm)
Interface	PCIe Gen 3x4
Storage Capacity	240GB, 480GB, 960GB, 1.92TB
Flash Type	3D TLC

Operating Environment	Description
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Non-Operating Humidity	5% ~ 95%
Operating Shock	1,500G. Duration 0.5ms, half sine wave
Non-Operating Vibration	20G. Peak, 10 ~ 20KHz with 3 axis

Power	Description
Power Requirement	3.3V ± 5%
Power Consumption (idle)	2.5 W

Performance	Description
Sequential Read/Write (max)	Read: 3,200 MB/s Write: 1,900 MB/s
4K Random Read/Write (max)	Read: 370,000 Write: 300,000
Mean Time Before Failure (MTBF)	≒2,000,000 hrs

ORDERING INFORMATION

Unigen Part Number	Capacity
UBPASMG240H	240GB
UBPASMG480H	480GB
UBPASMG960H	960GB
UBPASMG01T9	1.92TB