

Wildflower

KEY FEATURES

- AES 256-bit for User Data Encryption, TCG OPAL, TRNG, and FIPS 140-2 support
- End-to-end data protection with dynamic internal RAID
- Temperature sensor support
- Multi-streams (up to 32), ZNS, IOD
- Multiple NS (128) with 128 Encryption keys
- SR-IOV (15VF/PF/Port) with Virtualization (Dynamic allocations of Queue/Interrupt)
- CMB (Controller Memory Buffer) up to 16MB
- PMR (Persistent Memory Region) up to 16MB
- NVMe-MI 1.0a+ / SMART / Health Log / Telemetry / Atomicity of 512KB
- 10 DIF/DIX Vital Product Data (VPD) over SMBus & LED Internal / External Power Loss Protection (PLP)



Unigen's Wildflower Family of U.2 SSDs is designed to deliver the low power and high performance needed to support today's connected, storage-intensive world. Thermal issues that produce throttling have been eliminated by this architecture. The Wildflower SSDs are faster, more stable, and support the latest features required by Hyperscale data centers and enterprise storage applications, including dual-port, CMB, PMR, ZNS, IOD, multi-stream, and SR-IOV.

PRODUCT SPECIFICATIONS

Product Family	Description
Form Factor	U.2 15mm (default), 9.5mm, and 7mm (options)
Dimensions	69.85 x 100.0 x 7.1 (mm)
Interface	PCIe Gen 3x4
Storage Capacity	1TB, 2TB, 4TB
Flash Type	3D eTLC

Operating Environment	Description
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Non-Operating Humidity	5% ~ 90%
Non-Operating Shock	1,500G
Non-Operating Vibration	20G

Power	Description
Operating Voltage	3.3V ± 5%
Power Consumption	< 2.0W

Performance	Description
Sequential Read/Write (max)	Read: 3.5 GB/s Write: 1.9 GB/s
4K Random Read/Write (max)	Read: 730,000 Write: 200,000
Mean Time Before Failure (MTBF)	≅ 2,000,000 hrs

ORDERING INFORMATION

Unigen Part Number	Capacity
UBP4F01960HE1	1TB
UBP4F0101T9E1	2TB
UBP4F0103T8E1	4TB