ADATA Ultimate SU800 M.2 2280 3D NAND SSD

Utilizing 3D NAND Flash and a high speed SMI controller, the compact Ultimate SU800 M.2 2280 solid state drive provides capacities up to 1TB and greatly enhances performance, efficiency, and reliability over traditional 2D NAND. It also comes with intelligent SLC Caching and a DRAM Cache Buffer to boost read/write performance. Featuring LDPC ECC and technologies such as high TBW (total bytes written) and DEVSLP (Device Sleep), the SU800 M.2 2280 instantly upgrades notebook and desktop PCs with superior stability, durability, and power efficiency.

Features

- 3D TLC NAND Flash
- SMI Controller
- Wide capacity range: 128GB to 1TB
- Advanced hardware LDPC ECC Technology
- Intelligent SLC Caching and DRAM Cache Buffer
- DEVSLP (Device Sleep) supported
- High TBW for extended drive longevity
- Free software: SSD Toolbox and Migration Utility
- Supports S.M.A.R.T, TRIM Command, and NCQ

Ordering Information

Capacity	Model Number	EAN Code
128GB	ASU800NS38-128GT-C	4712366969551
256GB	ASU800NS38-256GT-C	4712366969568
512GB	ASU800NS38-512GT-C	4712366969575
1TB	ASU800NS38-1TT-C	4712366969582

Specifications

- Capacities: 128GB / 256GB / 512GB / 1TB
- Controller: SMI
- NAND Flash memory: 3D TLC
- Interface: SATA 6Gb/s (SATA III)
- Form factor: M.2 2280
- MTBF: 2,000,000 hours
- Dimensions (L x W x H): 22 x 80 x 3.5mm

- Weight: 8g
- Operating temperature: 0°C-70°C
- Storage temperature: -40°C-85°C
- Shock resistance: 1500G/0.5ms
- Error correction: advanced hardware LDPC engine
- Certifications: RoHS, CE, FCC, BSMI, VCCI, KC
- Warranty: 3 years

Performance

Capacity	Read Speed ATTO (MB/s)	Write Speed ATTO (MB/s)	Sequential Read Crystal Disk Mark (MB/s)	Sequential Write Crystal Disk Mark (MB/s)
128GB	Up to 560	Up to 300	Up to 550	Up to 300
256GB	Up to 560	Up to 520	Up to 550	Up to 500
512GB	Up to 560	Up to 520	Up to 550	Up to 500
1TB	Up to 560	Up to 520	Up to 550	Up to 500

*Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables

Schematics