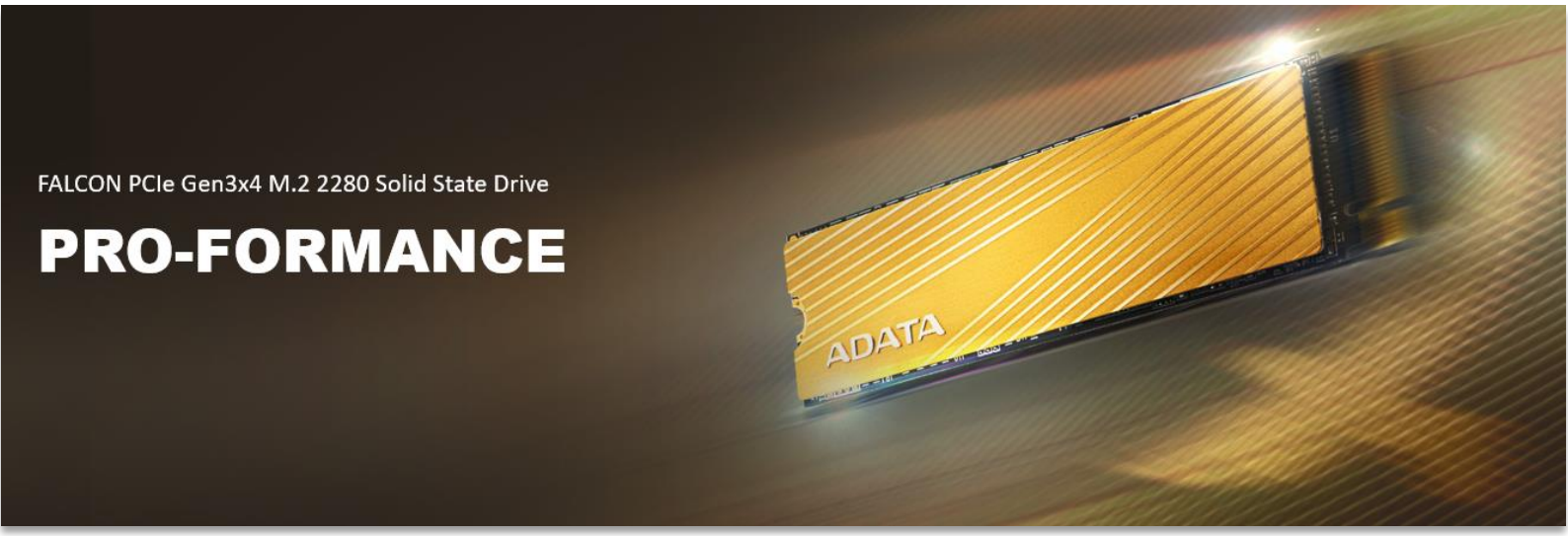
www.adata.com



FALCON PCIe Gen3x4 M.2 2280 Solid State Drive

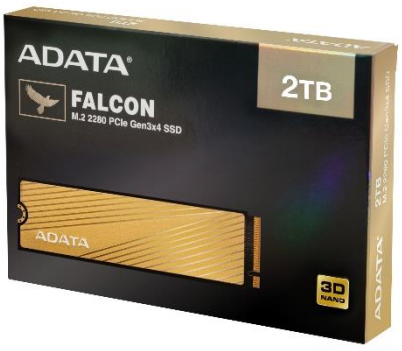
Up your creative power with the ADATA FALCON solid state drive (SSD). Using the PCIe Gen3x4 interface and equipped with 3D NAND Flash memory, the FALCON delivers read/write speed of up to 31000/1500MB per second for uninterrupted productivity and creativity.

Features

- Ultra-fast PCIe Gen3x4 interface
- R/W speed up to 3100/1500MB/s
- NVMe 1.3 support
- Advanced hardware LDPC ECC Technology
- Supports SLC Caching for improved performance
- AES 256-bit encryption support
- Support Host Memory Buffer(HMB)
- 3D NAND Flash for higher capacity and durability
- Compact M.2 2280 form factor – ideal for video editing, industrial drawing, programming
- Free software: SSD Toolbox and Migration Utility

Ordering Information

Capacity	Model Number	EAN Code
256GB	AFALCON-256G-C	4710273777764
512GB	AFALCON-512G-C	4710273776026
1TB	AFALCON-1T-C	4710273776033
2TB	AFALCON-2T-C	4710273776040



Specifications

- Capacity: 256GB / 512GB / 1TB / 2TB
- NAND Flash: 3D NAND
- Interface: PCIe Gen3x4
- Form Factor: M.2 2280
- Dimensions (L x W x H): 80 x 22 x 2.9mm
- Weight: 9g
- Performance (Max):
  Read 3100MB/s, write 1500MB/s
- Maximum 4K random read/write IOPS: 180K/180K
- Operating Temperature: 0°C-70°C
- Storage Temperature: -40°C-85°C
- Shock Resistance: 1500G/0.5ms
- MTBF: 1,800,000 hours
- Certifications: RoHS, CE, FCC, BSMI, KC
- Warranty: 5-year limited

Performance

Capacity	ATTO		CDM-QD32T1		AS SSD		4K Random		TBW
	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Read (IOPS)	Write (IOPS)	
256GB	Up to 3000	Up to 900	Up to 3000	Up to 900	Up to 2500	Up to 800	100K	130K	150TB
512GB	Up to 3000	Up to 1400	Up to 3100	Up to 1500	Up to 2800	Up to 1100	100K	160K	300TB
1TB	Up to 3000	Up to 1400	Up to 3100	Up to 1500	Up to 2800	Up to 1100	180K	180K	600TB
2TB	Up to 3000	Up to 1400	Up to 3100	Up to 1500	Up to 2800	Up to 1100	180K	180K	1200TB

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

Schematics