



Highlights

- Optimized for 24/7 video surveillance cameras
- Designed with ultra endurance for continuous operation
- Weather-resistant, humidity resistant, and withstands temperatures from -25°C to 85°C
- Supports advanced functionality of AI-enabled smart cameras
- Supports card health monitor functionality
- Advanced 3D NAND Technology

WD Purple™ SC QD312 Extreme Endurance microSD™ Card

The WD Purple™ SC QD312 Extreme Endurance microSD™ card is designed specifically to address the high-end security camera market. With its extreme endurance, high performance and capacities up to 256GB, the microSD card provides a no-compromise on-camera solution for primary video storage. Its support for card health monitor functionality allows for pre-emptive storage management to help reduce total cost of ownership (TCO). With the ever-growing adoption of higher resolutions and advanced functionality in AI-enabled smart cameras, this card offers exceptional longevity and reliability to meet the demanding 24/7 continuous recording workload. Trust Western Digital to deliver WD Purple—the ideal microSD storage for security video cameras and edge devices.

It's WD Purple

Designed for Surveillance. Building on the heritage of WD Purple hard drives, this card is designed with the right robustness, performance, and features for always-on video surveillance cameras and edge devices.

Put More Confidence in Your Cameras

No-compromise storage for your cameras. Extreme endurance WD Purple microSD cards are designed for continuous long-lasting 24/7 recording of high bit-rate video and advanced functionality of AI-enabled smart cameras..

Smart Storage Maintenance

Card Health Monitoring. In compatible cameras, the card health monitoring capability allows you to get notified about the health status of your WD Purple microSD card, so you can perform preemptive storage management.

Robust Storage, Indoors or Outdoors

Supports -25°C to 85°C temperature range; humidity resistant. Have peace of mind that this card is designed for continuous operation in extreme weather conditions and in a variety of climates.

Continuous Capture. Hours or Days

Capacities up to 256GB. Wide range of capacities for different combinations of camera resolution, frame rate, recording durations, and event trigger configuration.

Western Digital WD Purple™ SC QD312 Extreme Endurance microSD Card Product Features and Specifications

	256GB	128GB	64GB
Model Number¹	WDD256G1P1B QD312	WDD128G1P1B QD312	WDD064G1P1B QD312
Formatted capacity ²	256GB	128GB	64GB
Form factor	microSDXC™	microSDXC™	microSDXC™
Interface	SDA 6.0	SDA 6.0	SDA 6.0
Product Features			
Card Health Status Monitoring Capability	Yes	Yes	Yes
Performance²			
Sequential Read Performance (MB/s) up to ²	100 MB/s	100 MB/s	100 MB/s
Sequential Write Performance (MB/s) up to ²	65 MB/s	65 MB/s	65 MB/s
Speed Class	Speed Class 10 UHS Speed Class 1 (U1)	Speed Class 10 UHS Speed Class 1 (U1)	Speed Class 10 UHS Speed Class 1 (U1)
Reliability/Data Integrity			
Endurance ³	Up to 768 TBW	Up to 384 TBW	Up to 192 TBW
Limited Warranty (years) ⁴	5	5	5
Environmental Specifications			
Temperature (°C, on the base casting)			
Operating ⁵ Storage	-25°C to 85°C	-25°C to 85°C	-25°C to 85°C
Non-Operating	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C

¹ Not all products may be available in all regions of the world.

² As used for storage capacity, 1GB = 1 billion bytes. Actual user capacity may be less depending on operating environment.

As used for transfer rate, 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

³ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

⁴ 2 years or Max Endurance (TBW) limit, whichever comes first. See support.wdc.com for regional specific warranty details.

⁵ To achieve optimized power/performance, the maximum case temperature should not exceed 85°C.

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