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

<table>
<thead>
<tr>
<th>Model Number¹</th>
<th>256GB</th>
<th>128GB</th>
<th>64GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDD256G1P1B</td>
<td>QD312</td>
<td>QD312</td>
<td>QD312</td>
</tr>
<tr>
<td>WDD128G1P1B</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>WDD064G1P1B</td>
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</tr>
</tbody>
</table>

### Formatted capacity
- 256GB
- 128GB
- 64GB

### Form factor
- microSDXC™
- microSDXC™
- microSDXC™

<table>
<thead>
<tr>
<th>Interface</th>
<th>SDA 6.0</th>
<th>SDA 6.0</th>
<th>SDA 6.0</th>
</tr>
</thead>
</table>

### Product Features

#### Card Health Status Monitoring Capability
- Yes
- Yes
- Yes

#### Performance

- **Sequential Read Performance (MB/s) up to²**
  - 256GB: 100 MB/s
  - 128GB: 100 MB/s
  - 64GB: 100 MB/s

- **Sequential Write Performance (MB/s) up to²**
  - 256GB: 65 MB/s
  - 128GB: 65 MB/s
  - 64GB: 65 MB/s

#### Speed Class

<table>
<thead>
<tr>
<th>Speed Class</th>
<th>UHS Speed Class 1 (U1)</th>
<th>UHS Speed Class 1 (U1)</th>
<th>UHS Speed Class 1 (U1)</th>
</tr>
</thead>
</table>

### Reliability/Data Integrity

- **Endurance³**
  - Up to 768 TBW
  - Up to 384 TBW
  - Up to 192 TBW

- **Limited Warranty (years)⁴**
  - 2 years
  - 5 years
  - 5 years

### Environmental Specifications

<table>
<thead>
<tr>
<th>Temperature (°C, on the base casting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating²</td>
</tr>
<tr>
<td>-25°C to 85°C</td>
</tr>
<tr>
<td>-25°C to 85°C</td>
</tr>
<tr>
<td>-25°C to 85°C</td>
</tr>
</tbody>
</table>

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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.

² 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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