

The New SDA Ultra High Speed Standard Improves System Performance

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SanDisk Corporation

Card Use Cases Have Increased Significantly and are More Complex



Imaging

SanDisk
SDHC Card
8GB

SanDisk
8GB
microSD

Compatible with:


Works with
Windows
Phone



Performance Requirements are More Demanding and Different

Sequential Throughput

Random IOPS



Write **Read**

CLASS 4

Writing Pictures and Videos



Write **Read**

Pictures, Videos

Launching Apps

Write **Read**

System/OS Interactions

Multi-Tasking

Thumbnails, Gallery Panning

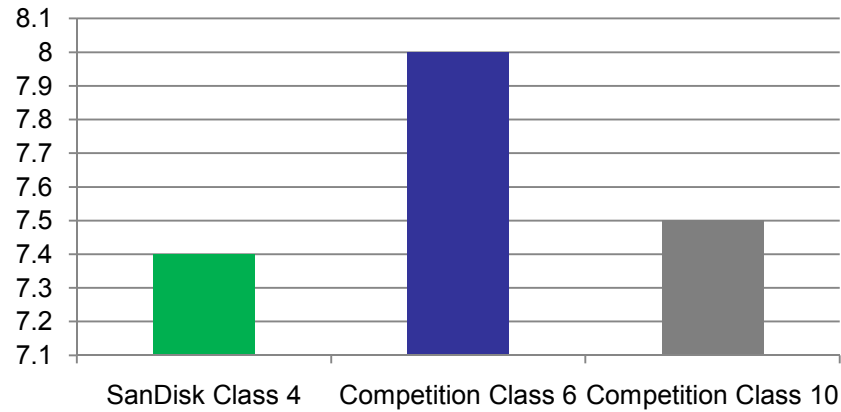
Picture, Video Shot-to-Shot

Readiness

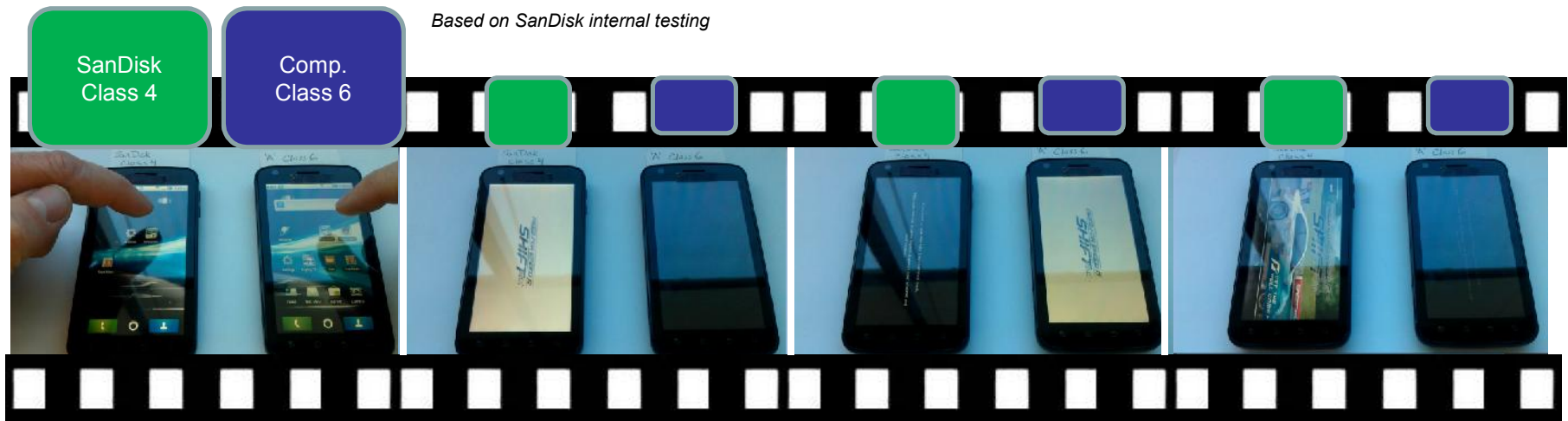


More Than Just Speed Class for Mobile

Game Launch Time from microSD™ (sec)



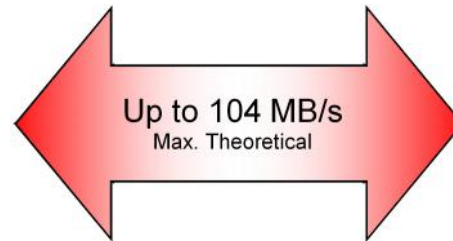
Based on SanDisk internal testing





UHS-I for Faster Performance

- New high speed bus interface within SDA 3.0
- UHS-I supports up to 104MB/s* data transfer
 - Faster App launch time**
- No speed class marking per SDA
- Backward compatible with non-UHS hosts



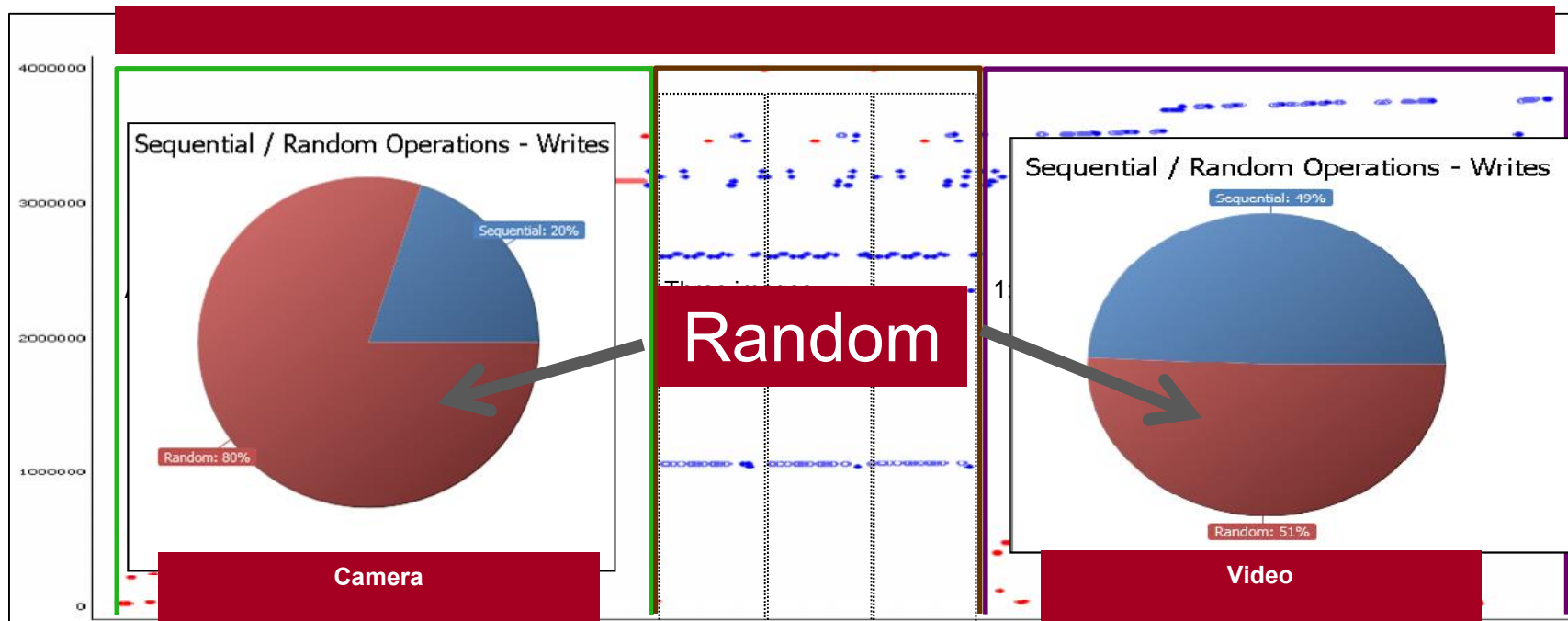
**Based on SanDisk internal testing; performance may be lower depending upon host device. 1 megabyte (MB) = 1,000,000 bytes.*

*** When used with a UHS-I compatible host device*



Higher Seq. and Random Performance Enhance User Experience

- Mobile use cases demand both seq. and random



Based on SanDisk internal testing

Flash Memory Summit 2011
Santa Clara, CA



UHS Improves System Performance

- Mobile card use cases demand both sequential and random performance
- System needs more than speed class benchmark
- New SDA UHS-I enhances system performance and overall user experience