

A Global Leader in Flash Memory Storage Solutions

microSD™ Cards



Grade	Commercial	Commercial	Commercial	Industrial	Industrial	Industrial 3D	Surveillance	Surveillance	Connected Home	Connected Home
Product Name	Commercial CL QD101 microSD Card	Commercial CL QD301 microSD Card	Commercial CL QD501 microSD Card	Industrial IX QD332 microSD Card	Industrial IX QD334 microSD Card	Industrial IX QD342 3D microSD Card	WD Purple SC QD101 microSD Card	WD Purple SC QD102 microSD Card	Edge + CH QD313 microSD Card	Edge + CH QD513 microSD Card
Formerly Known As	SDSQAB	SDSQAD	SDSQAE	SDSQAF3	SDSQED	SDSQAF4	WD Purple	WD Purple	SDSQEB	SDSQEC
Specification	Speed Class C4	Speed Class C10, U1, A1*	Speed Class C10, V30, U3, A2	Speed Class C10, U1	Speed Class C10, U3, A1	Speed Class U1, U3*, A1	Speed Class C10, U1	Speed Class C10, U1, U3, V30	Speed Class C10, U3	Speed Class C10, U3, A1
Capacity	8GB to 64GB	16GB to 256GB	32GB to 512GB	8GB to 128GB	8GB to 64GB	16GB to 256GB	32GB to 1TB	32GB to 256GB	8GB to 64GB	4GB to 64GB
Interface	SD 3.01 UHS-I 50	SD 3.01, SD 5.1 UHS-I 104	SD 6.0 UHS-I 104	SD 5.1 UHS-I 104	SD 5.1 UHS-I 104	SD 6.0 UHS-I 104	SD 6.0 UHS-I 104	SD 5.1 UHS-I 104	SD 4.2 UHS-I 104	SD 5.1 UHS-I 104
Operating Temperature	-25° to 85° C	-25° to 85° C	-25° to 85° C	XI: -40° to 85° C I: -25° to 85° C	XI: -40° to 85° C	-25° to 85° C	-25° to 85° C	-25° to 85° C	0° to 85° C	-25° to 85° C
Performance Sequential R/W ²	Up to 20/5 MB/s	Up to 95/10 MB/s	Up to 100/90 MB/s	Up to 80/50 MB/s	Up to 90/50 MB/s	Up to 100/50 MB/s	Up to 100/24 ⁷ MB/s	Up to 100/60 MB/s	Up to 50/30 MB/s	Up to 50/50 MB/s
Endurance ³	—	—	—	Up to 384 TBW	Up to 1920 TBW	Up to 768 TBW	Up to 512 TBW	Up to 256 TBW	Up to 640 TBW	Up to 3200 TBW
Health Status Register	—	—	—	Y	Y	Y	Y	Y	Y	Y
Host Lock	—	—	—	Y	Y	Y	Y	—	Y	Y
Programmable String/ID	—	—	—	Y	Y	Y	Y	—	Y	Y
Secure FFU	—	—	—	Y	Y	Y	Y	—	Y	Y
Auto/Manual Read Refresh	—	—	—	Y	Y	Y	—	—	Y	Y
Warranty	Varies by Region	Varies by Region	Varies by Region	2 years	2 years	2 years	3 years	3 years	2 years	2 years
OPN/SKU	SDSQAB-###G	SDSQAD-###G	SDSQAE-###G	SDSQAF3-###G-XI SDSQAF3-###G-I	SDSQED-###G-XI	SDSQAF4-###G-I	WDD###G1P0C WDD###G1PCC WDD###G1PIC	WDD###G1P0A WDD###G1PCA	SDSQEB-###G	SDSQEC-###G

SD Cards



Grade	Commercial	Commercial	Commercial	Industrial	Industrial 3D	Connected Home	Connected Home	Automotive ⁵
Product Name	Commercial CL LD101 SD Card	Commercial CL LD301 SD Card	Commercial CL LD501 SD Card	Industrial IX LD332 SD Card	Industrial IX LD342 3D Tech SD Card	Edge + CH LD313 SD Card	Edge + CH LD513 SD Card	Automotive AT LD332 SD Card
Formerly Known As	SDSDAA	SDSDAD	SDSDAE	SDSDAF3	SDSDAF4	SDSDEB	SDSDEC	SDSDAG3
Specification	Speed Class C4	Speed Class C10, U1	Speed Class C10, U3, V30	Speed Class C10, U1	Speed Class U1, U3 ⁶	Speed Class U1, U3	Speed Class C10, U3	Speed Class C10, U1, Grade 3
Capacity ¹	8GB to 32GB	16GB to 128GB	32GB to 128GB	8GB to 64GB	16GB to 512GB	8GB to 128GB	4GB and 32GB	8GB to 64GB
Interface	SD 3.01 UHS-I 50	SD 5.1 UHS-I 104	SD 6.0 UHS-I 104	SD 5.1 UHS-I 104	SD 6.0 UHS-I 104	SD 3.1, SD 4.2, UHS-I 104	SD 3.01, SD 5.1 UHS-I 50, UHS-I 104	SD 5.1 UHS-I 104
Operating Temperature	-25° to 85° C	-25° to 85° C	-25° to 85° C	XI: -40° to 85° C I: -25° to 85° C	XI: -25° to 85° C	0° to 85° C	-25° to 85° C	-40° to 85° C
Performance Sequential R/W ²	Up to 20/5 MB/s	Up to 80/10 MB/s	Up to 90/60 MB/s	Up to 80/50 MB/s	Up to 100/50 MB/s	Up to 50/30 MB/s	Up to 50/50 MB/s	Up to 80/50 MB/s
Endurance ³	—	—	—	Up to 192 TBW	Up to 1536 TBW	Up to 896 TBW	Up to 450 TBW	Up to 192 TBW
Health Status Register	—	—	—	Y	Y	Y	Y	Y
Host Lock	—	—	—	Y	Y	Y	Y	Y
Programmable String/ID	—	—	—	Y	Y	Y	Y	Y
Secure FFU	—	—	—	Y	Y	Y	Y	Y
Auto/Manual Read Refresh	—	—	—	Y	Y	Y	Y	Y
Enhanced Power Immunity	—	—	—	—	—	—	—	Y
Warranty	Varies by Region	Varies by Region	Varies by Region	2 years	2 years	2 years	2 years	2 years
OPN/SKU	SDSDAA-###G	SDSDAD-###G	SDSDAE-###G	SDSDAF3-###G-XI SDSDAF3-###G-I	SDSDAF4-###G-I	SDSDEB-###G	SDSDEC-###G	SDSDAG3-###G-XA

¹ 1 gigabyte (GB) = 1 billion bytes.

² Based on Western Digital internal testing, read and write speed may vary depending on read/write conditions. 1 megabyte (MB) = 1 million bytes.

³ Endurance values depend on capacity.

⁴ A1 = Application Performance Class. A1 is indicated by A1 logo marking. A1 is not available on 200GB configuration.

⁵ Automotive SD card is sold without a label.

⁶ U3 is available on 128GB, 256GB and 512GB configurations.

⁷ Preliminary performance.