Western Digital®

A Global Leader in Flash Memory Storage Solutions

microSD™ Cards

	Edge 64GB	Edge 400GB	Edge 512GB	Industrial XI 128GB	Industrial XI QD334 64GB	Industrial QD342 256GB	WD Purple 256GB	WD Purple QD312 256GB	Edge + QD313 64GB	Edge + QD513 64GB
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 – 3D Technology QD342 microSD Card	WD Purple SC QD102 microSD Card	WD Purple SC QD312 microSD Card	Edge + CH QD313 microSD Card	Edge + CH QD513 microSD Card
Formerly Known As	SDSDQAB	SDSDQAD	SDSDQAE	SDSDQAF3	SDSDQED	SDSDQAF4	WD Purple	WD Purple	SDSDQEB	SDSDQEC
Specification	Speed Class 4	Speed Class 10, U1, A1[4]	Speed Class V30, U3, A2	Speed Class 10, U1	Speed Class 10, U3, A1	Speed Class U1, U3[6], A1	Speed Class 10, U1, U3, V30	Speed Class 10, U1	Speed Class U1, U3, A1	Speed Class U3, A1
Capacity	8GB to 64GB	16GB to 400GB	32GB to 512GB	8GB to 128GB	8GB to 64GB	16GB – 256GB	32GB to 256GB	64–256 GB	8GB to 64GB	4GB to 64GB
Interface	SD 3.01 UHS-I 50	SD 3.01, SD 5.0 UHS-I 104	SD 5.0 UHS-I 104	SD 5.1 UHS-I 104	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 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	-25° 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 95/90 MB/s	Up to 80/50 MB/s	Up to 90/50 MB/s	Up to 100/50 MB/s	Up to 100/60 MB/s	Up to 100/65 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 256 TBW	Up to 768 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
Programmable String/ID	—	—	—	Y	Y	Y	—	—	Y	Y
Secure FFU	—	—	—	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 year	2 year	2 year	2 year	2 year	2 year	2 year
OPN/SKU	SDSDQAB-###G	SDSDQAD-###G	SDSDQAE-###G	SDSDQAF3-###G-XI SDSDQAF3-###G-I	SDSDQED-###G-XI	SDSDQAF4-###-I	WDD###G1P0A WDD###G1P0C	WDD###G1P1B	SDSDQEB-###G	SDSDQEC-###G
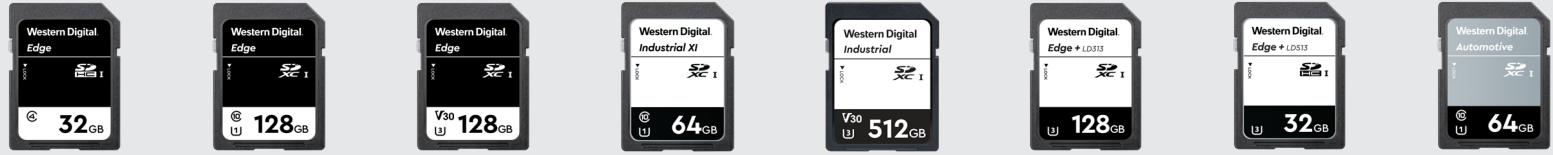
SD Cards

Grade	Commercial	Commercial	Commercial	Industrial	Industrial 3D	Connected Home	Connected Home	Automotive[5]
Product Name	Commercial CH LD101 SD Card	Commercial CL LD301 SD Card	Commercial CL LD501 SD Card	Industrial IX LD332 SD Card	Industrial IX – 3D Technology LD342	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 4	Speed Class 10, U1	Speed Class 10, U3	Speed Class 10, U1	Speed Class U1, U3[6]	Speed Class U1, U3	Speed Class U3, A1, 10	Speed Class 10, U1, Grade 3
Capacity[1]	8GB to 32GB	16GB to 128GB	32GB to 128GB	8GB to 64 GB	16GB – 512GB	8GB to 128GB	4GB and 32GB	8GB to 64GB
Interface	SD 3.01 UHS-I 50	SD 3.01 UHS-I 104	SD 4.0 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 3.01 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	–25° to 85° C	-25° 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 80/50 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	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 year	2 year	2 year	2 year	2 year
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.

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Contact Information

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