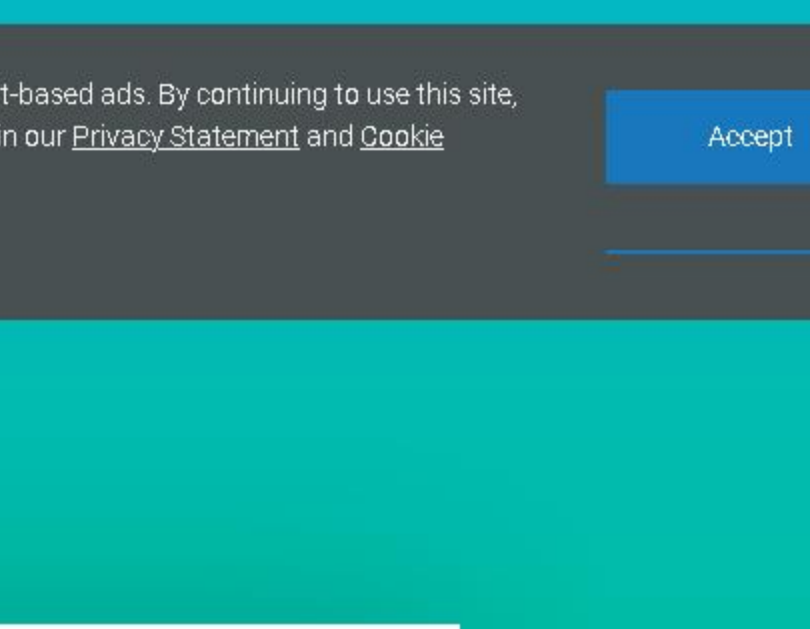


Industrial & Commercial microSD Cards



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Providing Trusted Reliability and Endurance with the Flexibility of Removable Media

Our industrial and commercial microSD cards deliver superior endurance, reliability, extended temperature range, and longevity for industrial applications across a wide range of applications, including drones, action cameras, home surveillance, gateways, servers, and network equipment.

Designed and tested to withstand some of the

commercial microSD cards take full advantage of a powerful suite of features available in the industrial series of flash storage solutions. These include health status monitoring for proactive maintenance, automatic read refresh to ensure data integrity, and host lock to enable data privacy. Fast Read/Write performance enables high bit-rate video streams for commercial imaging applications such as surveillance.

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Designed for Industrial and Commercial Applications

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Lower Total Cost of Ownership (TCO)
 Designed to last longer under continuous workloads and allow preemptive maintenance with health monitoring capabilities

Vertically Integrated
 Full vertical integration of design, manufacturing, assembly, testing, reliability analysis, and monitoring that supports the entire product life cycle

Fast and Reliable with Security
 Optimized for a wide variety of use cases with an industrial feature set that guarantees quality, data reliability, integrity, and security

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PRODUCT RESOURCES
Featured Items

- Industrial IX QD334 microSD Product Brief
- White Paper: Reliable Data Storage for Demanding Search & Rescue Drone Operations
- Flash Health Monitor and Host Lock White Paper

Highlights

- Operating temperature range: -25°C to 85°C and -40°C to 85°C
- Extreme high endurance: Up to 1920 TBW
- Broad portfolio: 8GB to 512GB
- Extended Product Life Cycle

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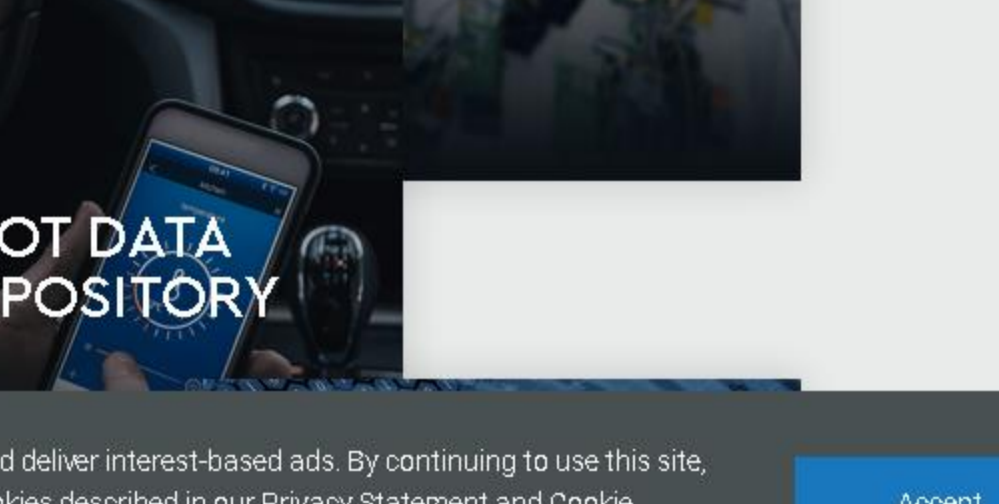
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[Brochure: Cards Advanced Features](#)
[Industrial and IoT Family Brochure](#)

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Applications and Markets

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When a card is more than a card



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Flexibility of Storage at the Edge of the Network

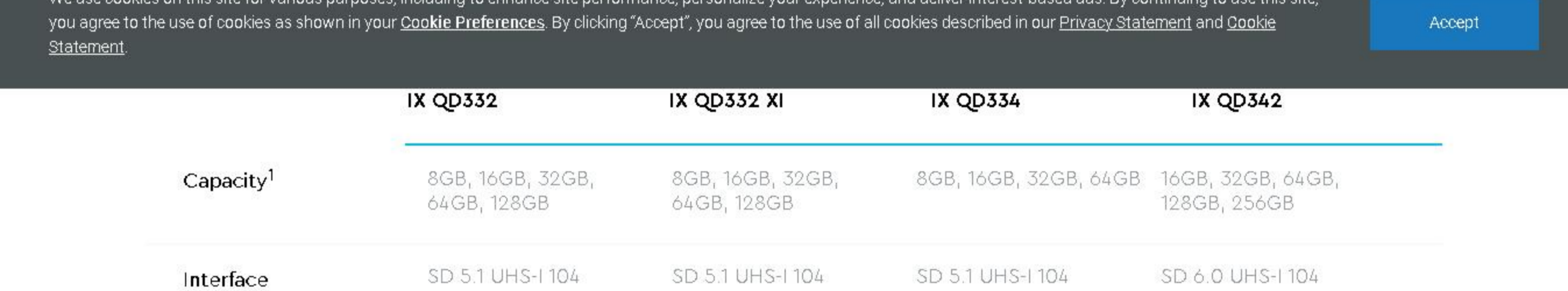
Removable cards are a perfect match for the needs of many IoT and industrial market segments. Designed for quality and built for high endurance, the industrial cards include technology and features that enable reading card statistics for preemptive maintenance. They provide serviceability and flexibility while maintaining the high reliability standards of an



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EXPLORATION



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Industrial & Commercial microSD Cards

Industrial microSD Card
 High endurance removable edge storage

Commercial microSD Card
 High endurance removable edge storage

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High Endure
 Endurance to match embedded solutions

Extended Temperature Range
 Industry leading range -40°C to 85°C

Broad Portfolio

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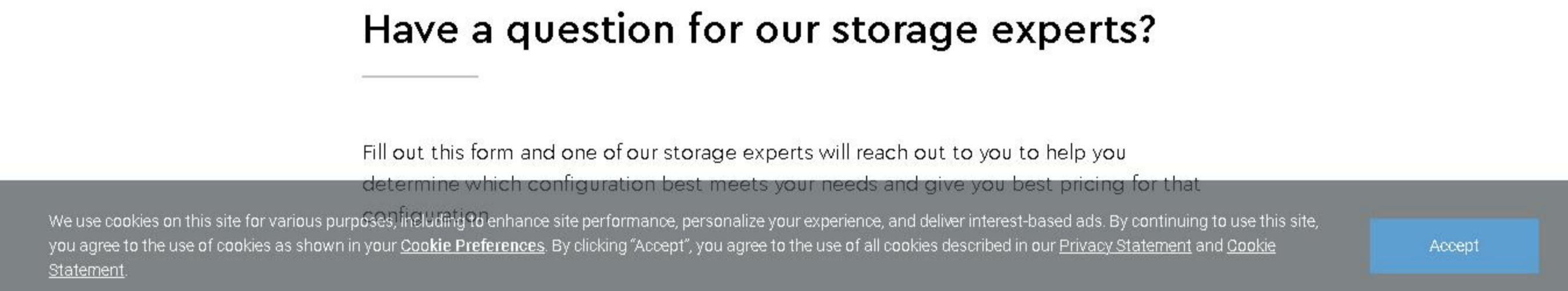
Specifications

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	IX QD332	IX QD332 XI	IX QD334	IX QD342
Capacity ¹	8GB, 16GB, 32GB, 64GB, 128GB	8GB, 16GB, 32GB, 64GB, 128GB	8GB, 16GB, 32GB, 64GB	16GB, 32GB, 64GB, 128GB, 256GB
Interface	SD 5.1 UHS-I 104	SD 5.1 UHS-I 104	SD 5.1 UHS-I 104	SD 6.0 UHS-I 104
NAND Flash Technology	MLC	MLC	SLC	3D NAND
Operating Temperature	-25°C to 85°C	-40°C to 85°C	-40°C to 85°C	-25°C to 85°C

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Part Numbers/SKU	SDSDQAF3-###G-I	SDSDQAF3-###G-XI	SDSDQED-###G-XI	SDSDQAF4-###G-I
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Resources for Industrial MicroSD Card

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[Brochure: Removable Flash Storage](#)
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White Paper

- Western Digital Design Considerations for SD™ Cards, eMMC and UFS Products White Paper
- Western Digital Flash Health Monitor and Host Lock White Paper
- Reliable Data Storage for Demanding Search & Rescue Drone Operations
- White Paper: Flash Health Monitor and Host Lock
- White Paper: Role of Surveillance in Securing Cities

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Disclosures
 1. 1TB = 1,000,000,000 bytes, the actual user capacity may vary depending upon the configuration. 2. Up to the stated speed. *Values derived from internal testing; performance may vary depending upon drive capacity, host device, OS and application. 3. Approximation based on internal metrics that quantify the amount of data that can be written to a card during its lifespan, expressed in Terabytes Written (TBW).

How to Buy Western Digital

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Fill out this form and one of our storage experts will reach out to you to help you determine which configuration best meets your needs and give you best pricing for that.

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SanDisk Connected Solutions

Automotive / Commercial / Industrial



iNAND Embedded Flash Drives

Part Number	Capacity	Interface	Operating Temp	Seq. R/W (MB/s)	Ran. R/W (IOPS)	Package
Industrial						
SDINBDG4-8G-I1	8GB	5.1 HS400	-25°C to 85°C	300/40	17K/8K	11.5x13x0.8
SDINBDG4-16G-I1	16GB	5.1 HS400	-25°C to 85°C	300/80	25K/15K	11.5x13x0.8
SDINBDG4-32G-I1	32GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.0
SDINBDG4-64G-I1	64GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.2
Industrial XT						
SDINBDG4-8G-XI1	8GB	5.1 HS400	-40°C to 85°C	300/40	17K/8K	11.5x13x0.8
SDINBDG4-16G-XI1	16GB	5.1 HS400	-40°C to 85°C	300/80	25K/15K	11.5x13x0.8
SDINBDG4-32G-XI1	32GB	5.1 HS400	-40°C to 85°C	300/150	25K/15K	11.5x13x1.0
SDINBDG4-64G-XI1	64GB	5.1 HS400	-40°C to 85°C	300/150	25K/15K	11.5x13x1.2
OEM/Commercial						
SDINBDG4-8G	8GB	5.1 HS400	-25°C to 85°C	300/40	17K/8K	11.5x13x0.8
SDINADF4-16G-H	16GB	5.1 HS400	-25°C to 85°C	290/150	3100/1800	11.5x13x0.9
SDINBDG4-16G	16GB	5.1 HS400	-25°C to 85°C	300/80	25K/15K	11.5x13x0.8
SDINADF4-32G	32GB	5.1 HS400	-25°C to 85°C	290/150	3100/1800	11.5x13x0.9
SDINBDG4-32G	32GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.0
SDINADF4-64G	64GB	5.1 HS400	-25°C to 85°C	290/150	3100/1800	11.5x13x1.0
SDINBDG4-64G	64GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.2
SDINADF4-128G-H	128GB	5.1 HS400	-25°C to 85°C	290/150	3100/1800	11.5x13x1.2
Automotive						
SDINBDG4-8G-XA	8GB	5.1 HS400	-40°C to 85°C	300/28	17K/7.8K	11.5x13x0.8
SDINBDG4-16G-XA	16GB	5.1 HS400	-40°C to 85°C	300/55	17K/7.8K	11.5x13x0.8
SDINBDG4-32G-XA	32GB	5.1 HS400	-40°C to 85°C	300/110	17K/7.8K	11.5x13x1.0
SDINBDG4-64G-XA	64GB	5.1 HS400	-40°C to 85°C	300/110	17K/7.8K	11.5x13x1.2
Automotive XT						
SDINBDG4-8G-ZA	8GB	5.1 HS400	-40°C to 105°C	300/28	17K/7.8K	11.5x13x0.8
SDINBDG4-16G-ZA	16GB	5.1 HS400	-40°C to 105°C	300/55	17K/7.8K	11.5x13x0.8
SDINBDG4-32G-ZA	32GB	5.1 HS400	-40°C to 105°C	300/110	17K/7.8K	11.5x13x1.0
SDINBDG4-64G-ZA	64GB	5.1 HS400	-40°C to 105°C	300/110	17K/7.8K	11.5x13x1.2
Connected Home						
SDINBDG4-8G-H	8GB	5.1 HS400	-25°C to 85°C	300/40	17K/8K	11.5x13x0.8
SDINBDG4-16G-H	16GB	5.1 HS400	-25°C to 85°C	300/80	25K/15K	11.5x13x0.8
SDINBDG4-32G-H	32GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.0
SDINBDG4-64G-H	64GB	5.1 HS400	-25°C to 85°C	300/150	25K/15K	11.5x13x1.0

USB Flash Drives



Part Number	Capacity	Form Factor	Category	Operating Temp
Cruzer Fit USB Flash Drive				
SDUFD33-008G	8	Low Profile	USB 2.0	0°C to 45°C
SDUFD33-016G	16	Low Profile	USB 2.0	0°C to 45°C
SDUFD33-032G	32	Low Profile	USB 2.0	0°C to 45°C
SDUFD33-064G	64	Low Profile	USB 2.0	0°C to 45°C
Cruzer Edge USB Flash Drive				
SDUFD51-008G	8	Compact Design	USB 2.0	0°C to 45°C
SDUFD51-016G	16	Compact Design	USB 2.0	0°C to 45°C
SDUFD51-032G	32	Compact Design	USB 2.0	0°C to 45°C
SDUFD51-064G	64	Compact Design	USB 2.0	0°C to 45°C
SDUFD43-016G	16	Compact Design	USB 3.0	0°C to 45°C
Connected Home Time Shift Buffer				
SDUFDEC-016G	16	Low Profile	USB 2.0	0°C to 55°C



SD Cards



SKU	Capacity	Class	Interface	Max Speed	Operating Temp	Seq. R/W (MB/s)	TBW
Automotive XT							
SDSDAG3-008G-XA	8	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/15	
SDSDAG3-016G-XA	16	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/30	
SDSDAG3-032G-XA	32	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/50	
SDSDAG3-064G-XA	64	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/50	
Industrial							
SDSDAF3-008G-I	8	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/15	24
SDSDAF3-016G-I	16	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/30	48
SDSDAF3-032G-I	32	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	96
SDSDAF3-064G-I	64	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	192
Industrial XT							
SDSDAF3-008G-XI	8	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/15	24
SDSDAF3-016G-XI	16	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/30	48
SDSDAF3-032G-XI	32	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/50	96
SDSDAF3-064G-XI	64	U1	SD 3.0	UHS-I 104	-40°C to 85°C	70/50	192
OEM/Commercial							
SDSDAA-008G	8	4		UHS-I 50	-25°C to 85°C		
SDSDAE-008G	8	U1	SD 3.0	UHS-I 104	-25°C to 85°C	80/30	
SDSDAA-016G	16	4	SD 3.0	UHS-I 50	-25°C to 85°C		
SDSDAD-016G	16	U1	SD 3.0	UHS-I 104	-25°C to 85°C	80/10	
SDSDAE-016G	16	U3	SD 4.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDAA-032G	32	4		UHS-I 50	-25°C to 85°C		
SDSDAD-032G	32	U1	SD 3.0	UHS-I 104	-25°C to 85°C	80/10	
SDSDAE-032G	32	U3	SD 4.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDAD-064G	64	U1	SD 3.0	UHS-I 104	-25°C to 85°C	80/10	
SDSDAE-064G	64	U3	SD 4.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDAD-128G	128	U1	SD 3.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDAE-128G	128	U3	SD 4.0	UHS-I 104	-25°C to 85°C	80/50	
Connected Home							
SDSDEC-004G	4	U3	SD 5.0	UHS-I 104	-0°C to 85°C	50/50	200
SDSDEB-008G	8	U1	SD 5.0	UHS-I 104	-0°C to 85°C	50/10	80
SDSDEB-016G	16	U1	SD 5.0	UHS-I 104	-0°C to 85°C	50/20	160
SDSDEC-032G	32	10	SD 3.0	UHS-I 50	-0°C to 85°C	30/30	450
SDSDEB-032G	32	U3	SD 4.0	UHS-I 104	-0°C to 85°C	50/30	224
SDSDEB-064G	64	U3	SD 4.0	UHS-I 104	-0°C to 85°C	50/30	448
SDSDEB-128G	128	U3	SD 4.0	UHS-I 104	-0°C to 85°C	50/30	896

microSD Cards



SKU	Capacity	Class	Interface	Max Speed	Operating Temp	Seq. R/W (MB/s)	TBW
Industrial Wide Temp							
SDSDQAF-008G-I	8	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/15	16
SDSDQAF-016G-I	16	U1	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	32
SDSDQAF2-032G-I	32	10	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	96
SDSDQAF2-064G-I	64	10	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	192
SDSDQAF3-128G-I	128	U3	SD 3.0	UHS-I 104	-25°C to 85°C	70/50	384
OEM/Commercial							
SDSDQAB-016G	16	4	SD 3.0	UHS-I 50	-25°C to 85°C	20/5	
SDSDQAD-016G	16	U1	SD 3.0	UHS-I 104	-25°C to 85°C	40/10	
SDSDQAB-032G	32	4	SD 3.0	UHS-I 50	-25°C to 85°C	20/5	
SDSDQAD-032G	32	U1	SD 3.0	UHS-I 104	-25°C to 85°C	40/10	
SDSDQAE-032G	32	V30	SD 5.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDQAB-064G	64	4	SD 3.0	UHS-I 50	-25°C to 85°C	20/5	
SDSDQAD-064G	64	U1	SD 3.0	UHS-I 104	-25°C to 85°C	40/10	
SDSDQAE-064G	64	V30	SD 5.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDQAD-128G	128	U1	SD 3.0	UHS-I 104	-25°C to 85°C	40/10	
SDSDQAE-128G	128	V30	SD 5.0	UHS-I 104	-25°C to 85°C	80/50	
SDSDQAD-200G	200	U1	SD 3.0	UHS-I 50	-25°C to 85°C	80/10	
SDSDQAD-256G	256	U1	SD 5.0	UHS-I 104	-25°C to 85°C	95/10	
Connected Home							
SDSDQEC-004G	4	U3	SD 5.0	UHS-I 104	-25°C to 85°C	50/50	200
SDSDQEC-008G	8	U3	SD 5.0	UHS-I 104	0°C to 85°C	50/50	400
SDSDQEB-008G	8	U1	SD 5.0	UHS-I 104	0°C to 85°C	50/10	80
SDSDQEC-016G	16	U3	SD 5.0	UHS-I 104	0°C to 85°C	50/50	800
SDSDQEB-016G	16	U1	SD 5.0	UHS-I 104	0°C to 85°C	50/20	160
SDSDQEB-032G	32	U3	SD 5.0	UHS-I 104	0°C to 85°C	50/30	320
SDSDQEB-064G	64	U3	SD 5.0	UHS-I 104	0°C to 85°C	50/30	640

NOT FOR NEW DESIGN

iNAND Embedded Flash Drives

Part Number	Capacity	Interface	Operating Temp	Seq. R/W (MB/s)	Ran. R/W (IOPS)	Package
Automotive						
SDIN8DE2-4G-A	4GB	4.51 HS200	-25°C to 85°C	90/17	4500/500	11.5x13x1.0
SDIN8DE1-8G-A	8GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE2-8G-A	8GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE2-16G-A	16GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE4-32G-A	32GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE4-64G-A	64GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
Automotive XT						
SDIN8DE2-4G-XA	4GB	4.51 HS200	-40°C to 85°C	90/17	4500/500	11.5x13x1.0
SDIN8DE1-8G-XA	8GB	4.51 HS200	-40°C to 85°C	90/17	4500/850	11.5x13x1.0
SDIN8DE2-8G-XA	8GB	4.51 HS200	-40°C to 85°C	115/30	4500/850	11.5x13x1.0
SDIN8DE2-16G-XA	16GB	4.51 HS200	-40°C to 85°C	115/30	4500/1200	11.5x13x1.0
SDIN8DE4-32G-XA	32GB	4.51 HS200	-40°C to 85°C	120/37	4500/1200	11.5x13x1.2
SDIN8CE4-64G-XA	64GB	4.51 HS200	-40°C to 85°C	120/37	4500/1200	12x16x1.4
Industrial						
SDIN8DE2-4G-I	4GB	4.51 HS200	-25°C to 85°C	90/17	4500/500	11.5x13x1.0
SDIN8DE1-8G-I	8GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE2-8G-I	8GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE2-16G-I	16GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE4-32G-I	32GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
SDIN8DE4-64G-I	64GB	4.51 HS200	-25°C to 85°C	120/37	4500/1200	11.5x13x1.0
Industrial XT						
SDIN8DE2-4G-XI	4GB	4.51 HS200	-40°C to 85°C	90/17	4500/500	11.5x13x1.0
SDIN8DE1-8G-XI	8GB	4.51 HS200	-40°C to 85°C	90/17	4500/850	11.5x13x1.0
SDIN8DE2-8G-XI	8GB	4.51 HS200	-40°C to 85°C	115/30	4500/850	11.5x13x1.0
SDIN8DE2-16G-XI	16GB	4.51 HS200	-40°C to 85°C	115/30	4500/1200	11.5x13x1.0
SDIN8DE4-32G-XI	32GB	4.51 HS200	-40°C to 85°C	120/37	4500/1200	11.5x13x1.2
SDIN8CE4-64G-XI	64GB	4.51 HS200	-40°C to 85°C	120/37	4500/1200	12x16x1.4

Contact Information

For all inquiries, please email:
OEMProducts@SanDisk.com

For more information,
 please visit:
www.sandisk.com

Sales and Technical Information:
techsupport@SanDisk.com

USA | Western Digital Technologies, Inc
 Corporate Headquarters
 951 SanDisk Drive
 Milpitas, CA 95035
 Tel: +1-408-801-1000
 Fax: +1-408-801-8657

Japan
 Shinagawa Tokyu Bldg., 3F
 1-6-31, Konan, Minato-ku
 Tokyo, Japan 108-0075
 Tel: +81-3-4334-7110 (OEM Sales)

Taiwan
 37F, Taipei 101 Tower, No 7
 Xinyi Road, Section 5
 Taipei, Taiwan, 110
 Tel: +886-2-8758-2966
 Fax: +886-2-8758-2999

Europe
 7 Atir Yeda St.
 Kfar Saba 44425, Israel
 Tel: + 972-9-764-5000
 Fax: + 972-3-548-8666

Korea
 9F, Asia Tower,
 430 Nonhyeon-Ro
 Gangnam Gu, Seoul 135-719, Korea
 Tel: + 82-2-6718-4600
 Fax: + 82-2-3452-9145

China
 Room 121-122, Bldg. 2
 International Commerce & Exhibition Ctr.
 Hong Hua Rd. Futian Free Trade Zone
 Shenzhen, China
 Tel: +86-755-8348-5218
 Fax: +86-755-8348-5418



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