

SD Memory Card

High speed random access SD Card S Series Fixed-Main-Parts SD Card K Series



Developed for implementation in industrial devices. The SD cards have a graspable product lifetime

Product features



High speed random access

• Enhanced Electrical Shut Down Durability

Even if control information were to be damaged from a power shut down, the backed up control informat ion will self-repair the logical and physical conversion table by re-building the memory control information so the device will boot up.

Speed Stability

The S Series, the memory management method is specialized for Random Access , which guarantees consistent performance even after extensive use.

• Lifespan Diagnosis Support

We have developed a lifespan diagnostic tool dedicated to SD memory cards which allows our customers to check the state of the SD memory card in their environment setting.

*Only available for the Windows operating system.

Our exclusive reader/writer is required for lifespan diagnos-is.



Exclusive Card Reader for Lifespan Diagnosis Prod uct M odel C ode: HPC-SDR1AD Package view

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S series		¥	O	igwedge	0	Δ	Ro HS	7		((()	•		+			Live
SLC	•	•	•	-	-	•	•	-	-	•	-	-	•	•	•	•
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Static wear leveling Refresh Function Read retry Function Power loss guard Function Off line scan Fixed specifications Results RoHS compatibility Fixed Function Power loss guard Function Power Shut Off Durability Wide temperature Fixed Function Fixed Specification Fixed Specification Function Fixed Specification Function Fixed Specification Fixed S











Product Specific	ations		S series		K ser	ies					
Fla	nsh Type	SLC	Q-MLC	MLC	SLC	MLC					
(Capacity	512MB~32GB	4GB~128GB	8GB~256GB	128MB, 512MB~16GB	2GB∼128GB					
ir	nterface		SD 3.0								
	Power SUPPLY Voltage										
Operating temperature	Standard	-	-25℃	~85℃	-25℃~85℃						
Operating temperature	Wide temperature	-40℃~85℃		-	-40℃~85℃	-					
Storag	e temperature		-40℃~85℃		-40℃~85℃				-40℃~85℃		
Opera	ting Humidity		~95% (non condensing)								
Stora	ge Humidity		~95% (non condensing)								
Dimer	nsions (mm)		24 × 32 × 2.1								
	Sequential read (MB/s)	[UHS-1] 90	[UHS-1] 88 [UHS-1] 78		[UHS-1] 88	[UHS-1] 90					
Performance	Sequential write (MB/s)	[UHS-1] 70	[UHS-1] 80	[UHS-1] 70	[UHS-1] 79	[UHS-1] 63					
Performance	Random read (IOPS)	-	-	-	-	-					
	Random write (IOPS)	-	-	-	-	-					
Current consumption (mA)	Read (Max)	150	170	210	110	120					
Current Consumption (ma)	Write (Max)	150	140	170	-40℃~85℃ ing) ing) [UHS-1] 88	180					
War	ranty peried		1year								

Product lineup

Froduct inleup												
S series		128MB	512MB	1GB	2GB	4GB	8GB	16GB	32GB	64GB	128GB	256GB
SLC	-40∼85℃	-	NSD6-512MS (P**SEI	NSD6-001GS (P**SEI	NSD6-002GS (P**SEI	NSDB-004GS (N**SEI	NSDB-008GS (N**SEI	NSDB-016GS (N**SEI	NSDB-032GS (N**SEI	-	-	-
Q-MLC	-25~85℃	-	-	-	-	NSDB-004GS (N**Q*S	NSDB-008GS (N**Q*S	NSDB-016GS (N**Q*S	NSDB-032GS (N**Q*S	NSDB-064GS (N**Q*S	NSDB-128GS (N**Q*S	-
MLC	-25~85℃	-	-	-	-	-	NSDB-008GS (N**M*S	NSDB-016GS (N**M*S	NSDB-032GS (N**M*S	NSDB-064GS (N**M*S	NSDB-128GS (N**M*S	NSDB-256GS (N**M*S
K series		128MB	512MB	1GB	2GB	4GB	8GB	16GB	32GB	64GB	128GB	256GB
SLC	-25~85℃	NSD2-128MK (L**SEI	NSD6-512MK (L**SEI	NSD6-001GK (L**SEI	NSD6-002GK (L**SEI	NSDB-004GK (L**SEI	NSDB-008GK (L**SEI	NSDB-016GK (L**SEI	-	-	-	-
SLC	-40∼85℃	-	NSD6-512MK (L**SEZ	NSD6-001GK (L**SEZ	NSD6-002GK (L**SEZ	NSDB-004GK (L**SEZ	NSDB-008GK (L**SEZ	NSDB-016GK (L**SEZ	-	-	-	-
MLC	-25~85℃	-	-	-	NSD6-002GK (L**MHI	NSDB-004GK (L**MHI	NSDB-008GK (L**MHI	NSDB-016GK (L**MHI	NSDB-032GK (L**MHI	NSDB-064GK (L**MHI	NSDB-128GK (L**MHI	-

^{*} management number

HAGIWARA Solutions

Hagiwara Solutions Co., Ltd.

Nagoya eadquarters

8F Pacific square NagoyaNishiki, 2-5-12Nishiki, Nakaku, Nagoya city, Aichi 460-0003, Japan TEL.+81-52-223-1301 FAX.+81-52-223-1303

Fukuoka Sales Office

7F NK-Shinwa building, 5-1 Kojimachi, chiyoda-ku, Tokyo 102-0081, Japan TEL.+81-3-3556-5016 FAX.+81-3-3556-5018

8F Meiji Yasuda Life Insurance Company Osaka Midosuji building, 4-1-1 Fushimi-tyo, Chuo-ku, Osaka city, Osaka 541-0044, Japan TEL.+81-6-6223-5011 FAX.+81-6-6223-5012

4F Higashihie square building, 3-12-16 Higashihie, Hakata-ku, Fukuoka city, Fukuoka 812-0007, Japan TEL.+81-92-477-8207 FAX.+81-92-477-8208

http://www.hagisol.com

hsolsupport@hagisol.co.jp

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