

Low Cost & Low Power Consumption

HAGIWARA Solutions

DRAM LESS SATA 6G Industrial SSD: S500S Series

Optimized with Sequential Read & Write

What is S500S Series?



CFast



2.5inch



M.2 2242



M.2 2280

- BiCS5
- TLC & pSLC
- DRAM LESS
- Low Power Consumption
- Fixed BOM of Major Parts
- Long-Term Supply
- Power Loss Protection Algorithm
- Environmental Data Sheets of RoHS & chemSHERPA
- Comply with CE/FCC/VCCI/UKCA
- Live Monitor PLUS for Life Prediction

POINT

PE Cycles: 100.000 (pSLC)

What is good for DRAM LESS?

Low Power Consumption

Writing 25% decreased

Idling 15% decreased

1TB model:
30% decreased

Optimized with Sequential Write/Read

You knew already,
DRAM LESS SSD doesn't matter to Write/Read sequentially. It's time to try!

Applications



Machine Tools



IPC



Network Appliances



Fintech

Product Portfolio

Form Factor	TLC		pSLC	
	Capacity	Part Numbers	Capacity	Part Numbers
CFast	64GB	CSN1S-064GB00BN	20GB	CHN1S-020GB01BN
	128GB	CSN1S-128GB00BN	40GB	CHN1S-040GB01BN
	256GB	CSN1S-256GB00BN	80GB	CHN1S-080GB01BN
	512GB	CSN1S-512GB00BN	160GB	CHN1S-160GB01BN
2.5inch	64GB	CSN2S-064GB00BN	20GB	CHN2S-020GB01BN
	128GB	CSN2S-128GB00BN	40GB	CHN2S-040GB01BN
	256GB	CSN2S-256GB00BN	80GB	CHN2S-080GB01BN
	512GB	CSN2S-512GB00BN	160GB	CHN2S-160GB01BN
	1,024GB	CSN2S-1024B00BN		
M.2 2242	64GB	CSN4S-064GB00BN	20GB	CHN4S-020GB01BN
	128GB	CSN4S-128GB00BN	40GB	CHN4S-040GB01BN
	256GB	CSN4S-256GB00BN	80GB	CHN4S-080GB01BN
	512GB	CSN4S-512GB00BN	160GB	CHN4S-160GB01BN
	1,024GB	CSN4S-1024B00BN		
M.2 2280	64GB	CSN8S-064GB00BN	20GB	CHN8S-020GB01BN
	128GB	CSN8S-128GB00BN	40GB	CHN8S-040GB01BN
	256GB	CSN8S-256GB00BN	80GB	CHN8S-080GB01BN
	512GB	CSN8S-512GB00BN	160GB	CHN8S-160GB01BN
	1,024GB	CSN8S-1024B00BN		

Spec Summary

SATA Gen3 6Gbps
2.5inch, CFast and M.2 2242/2280
BiCS5 (TLC & pSLC)
DRAM LESS
PE Cycles: TLC 3.000, pSLC 100.000
Data Retention: 10 years (1 year at the end of life:)
Error Correction: LDPC (Low-Density Parity Check)
Operation temperature: 0 – 70 °C
S.M.A.R.T. Supported
CE/FCC/VCCI/UKCA
RoHS & chemSHERPA

- Static Wear Leveling
- Read Refresh
- Internal RAID
- Temperature Management
- NCQ: Native Command Queuing
- WWN: World Wide Name (World Wide ID)
- ATA Security

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