

SOLID STATE HARD DRIVE SPECIFICATIONS

R&D | OEM | ODM SSD & DDRAM

P/N: ST25SATA36I8M-500 SEMITANK SSD 2.5 SATA 2.5" I8 500GB

DESCRIPTION

I8 Industrial Series 500GB is an SSD hard drive using a connection interface SATA III 6Gbps controller. This is a SSD that delivers read/write speeds up to 550/500 MBps and Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling. System Support: Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control.

Precautions:

- [1] The speed was tested by Semitank and for the reference only.
- [2] 1GB=1,000,000,000 Bytes. In OS system, it would be displayed as 1,000,000,000 Bytes/1024/1024/1024 = 0.93GB [3] Definition and conditions of TBW (Terabytes Written)are based on JEDEC standard
- [4] Transmission speed will vary according to different hardware/software conditions, therefore the data can only use for basic reference.

NOTES:

- [5] We reserve the right to modify product specifications without prior notice.
- [6] Different devices may have a different best format for usage. It is recommended to format the device before use to ensure the correctness and the integrity of the SSD.
- [7] (1): We can use any of the above driver ICs. Basically, they do not change the performance and basic specifications.[8] (2): We may change any type of memory chip for any product line without notice.

SPECIFICATIONS

Series: 18 Industrial Series	SPECIFICATIONS	
Capacity: 500GB Performance Read/Write: 550/500 MBps Interface: SATA III 6Gbps Controller: (1) SMI: SM2246XT NAND: (2) Intel/Micron 2D MLC Nandflash Original chip Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AIOS - Server - Industrial Computer - Commercial Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: 5V Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Series:	18 Industrial Series
Performance Read/Write: 550/500 MBps Interface: SATA III 6Gbps Controller: ⁽¹⁾ SMI: SM2246XT NAND: ⁽²⁾ Intel/Micron 2D MLC Nandflash Original chip Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AIOS - Server - Industrial Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: 5V Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Model:	SSD 2.5 SATA 2.5" I8 500GB
Interface: SATA III 6Gbps Controller: ⁽¹⁾ SMI: SM2246XT Intel/Micron 2D MLC Nandflash Original chip Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AIOs - Server - Industrial Computer - Commercial Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: 5V Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Capacity:	500GB
Controller:(1) SMI: SM2246XT Intel/Micron 2D MLC Nandflash Original chip Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AlOs - Server - Industrial Computer - Commercial Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: 5V Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Performance Read/Write:	550/500 MBps
NAND: (2) Intel/Micron 2D MLC Nandflash Original chip Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AIOs - Server - Industrial Computer - Commercial Computer - Consumer Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: 5V Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Interface:	SATA III 6Gbps
Support: Support TRIM, NCQ, S.M.A.R.T, ECC, Wearleveling - Desktop - Laptop - AIOs - Server - Industrial Computer - Commercial Computer - Consumer Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	Controller: ⁽¹⁾	SMI: SM2246XT
Support: Wearleveling - Desktop - Laptop - AIOs - Server - Industrial Computer - Commercial Computer - Consumer Computer Windows XP/Win7/8/10/11, Mac OS, Linux, embedded operating systems used in control, measurement, and applications such as: Music server, Automation control. Operating Voltage: Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	NAND: ⁽²⁾	Intel/Micron 2D MLC Nandflash Original chip
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Dimensions: 100mm*70mm*7mm Operating Temperature: 0 - 70°C Storage Temperature: -40 - 85°C Humidity: 0°C ~ 50°C/5% ~ 95% RH, non-condensing Warranty: Lifetime warranty – 36 months	System Support:	embedded operating systems used in control, measurement, and applications such as: Music
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Warranty: Lifetime warranty – 36 months	Storage Temperature:	-40 - 85°C
	Humidity:	0°C ~ 50°C/5% ~ 95% RH, non-condensing
Quality Certification: CE, FCC, ROHs	Warranty:	Lifetime warranty – 36 months
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