

PHANES-HR Series

aSLC 2.5" Rugged Metal SATA III SSD / Built with DDRIII SDRAM CACHE




Product Feature

- aSLC - NAND type flash technology
- Supports Windows-7 TRIM Command
- Built with DDRIII SDRAM cache
- Extremely rugged metal casing to endure harsh environments
- S.M.A.R.T. supported
- RoHS & REACH compliant
- Capacity from 32GB up to 1TB

Product Specification

Compatibility	<ul style="list-style-type: none"> ■ SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance 	Power consumption	<ul style="list-style-type: none"> ▶ +5V ± 5% ▶ 2520 mW (Max.) ▶ 4450 mW (Max.) ▶ 400 mW (Max.)
Flash technology	<ul style="list-style-type: none"> ■ aSLC-NAND type flash memory 	Power requirement	
Form-factor	<ul style="list-style-type: none"> ■ Rugged Metal 2.5" SATA SSD 	Reading mode	
Host Interface	<ul style="list-style-type: none"> ■ SATA 7-pin (data) + 15-pin (power) 	Writing mode	
Performance		Idle mode	
Data transfer rate	<ul style="list-style-type: none"> ■ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s 	Reliability	
Sequential read	<ul style="list-style-type: none"> ■ 550 MB/sec (Max.) 	Wear-leveling	<ul style="list-style-type: none"> ▶ Static and Dynamic wear-leveling algorithms
Sequential write	<ul style="list-style-type: none"> ■ 530 MB/sec (Max.) 	ECC	<ul style="list-style-type: none"> ▶ 120 bits per 2K bytes block
Environmental specification		Physical specification	
Operating temp.	<ul style="list-style-type: none"> ▶ STD. 0°C~70°C/W.T. -40°C~+85°C 	Weight	<ul style="list-style-type: none"> ▶ 115g ± 5g /3.7 oz.
Non-operating temp.	<ul style="list-style-type: none"> ▶ STD. -20°C~+80°C/W.T. -50°C~+95°C 	Dimension(W x L x H)	<ul style="list-style-type: none"> ▶ 69.90 x 100.00 x 7.00 (mm)
Conformal coating	<ul style="list-style-type: none"> ▶ Option for wide temperature 	Warranty	<ul style="list-style-type: none"> ▶ aSLC(standard/wide temp.) 2 years or within 20k Erasing counts
Humidity	<ul style="list-style-type: none"> ▶ 10% - 95% non-condensing 		
Vibration	<ul style="list-style-type: none"> ▶ 80 Hz to 2K Hz, 20G, 3 axes 		
Shock	<ul style="list-style-type: none"> ▶ 0.5ms, 1500G, 3 axes 		
Altitude	<ul style="list-style-type: none"> ▶ 70,000 feet 		

Part Number List

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	32GB	SR7SR032G-PHCTMBAS	WR7SR032G-PHCTMBASC
	64GB	SR7SR064G-PHCTMBAS	WR7SR064G-PHCTMBASC
	128GB	SR7SR128G-PHCTMBAS	WR7SR128G-PHCTMBASC
	256GB	SR7SR256G-PHCTMBAS	WR7SR256G-PHCTMBASC
	512GB	SR7SR512G-PHCTMBAS	WR7SR512G-PHCTMBASC
	1TB	SR7SR001T-PHCTMBAS	WR7SR001T-PHCTMBASC

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 X17 X18 X19 X20

Example ▶

W R 7 S R 0 0 1 T — P H C T M B A S C

X1 Grade

S : Standard grade operating temp. 0° C~70 ° C
 W : Wide temp. Grade operating temp. -40° C~+85 ° C

X2 The material of casing

R : 2.5" Rugged metal casing

X3 X4 X5 Product category

7SR : 2.5" height 7 mm SATA SSD with SDRAM Cache

X6 X7 X8 X9 Capacity

032G : 32GB **256G** : 256GB
064G : 64GB **512G** : 512GB
128G : 128GB **001T** : 1TB

X11 Controller

P : PHANES Series

X12 Controller version

A, B, C, D....

X13 Controller grade

C : Commercial grade

X14 Flash IC brand

T : Toshiba flash IC

X15 Flash IC type

M : MLC-NAND flash IC

X16 MLC Technology

B : Toshiba 15nm MLC

X17 X18 aSLC Technology

AS : aSLC Technology extendeds MLC product's lifespan

X19 X20 Reserved for specific requirement

C : Conformal coating for wide temp. grade