

## CHARIOT Series Industrial (Rugged metal) 2.5" SATA Flash Disk



### Product features

- ❖ SLC - NAND type flash technology
- ❖ 2.5" SATA drive form-factor
- ❖ Extremely rugged metal casing to endure harsh environments
- ❖ Performance up to 64.8MB/sec (460X)
- ❖ Industrial grade capacity from 8GB up to 64GB
- ❖ Standard grade capacity from 8GB up to 128GB


### Product specifications

<b>Compatibility</b>	❖ SATA 1.0a and SATA 2.6 specification compliance	<b>Power consumption</b>	Power requirement	❖ +5V ± 10%
<b>Flash technology</b>	❖ SLC-NAND type flash based		Reading mode	❖ 360mA (Max.)
<b>Form-factor</b>	❖ Rugged Metal 2.5" SATA hard disk drive		Writing mode	❖ 400mA (Max.)
<b>Host Interface</b>	❖ SATA 7-pin (data) + 15-pin (power)		Sleeping mode	❖ 240mA (Max.)
<b>Performance</b>		<b>Reliability</b>		
Data transfer rate	❖ Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	Wear-leveling	❖ Dynamic wear-leveling algorithms	
Sequential read	❖ 64.8 MB/sec (Max.)	MTBF	❖ > 3,000,000 hours	
Sequential write	❖ 55.3 MB/sec (Max.)	ECC	❖ 4-bits per 512bytes block	
Average access time	❖ 0.3ms (estimated)	Endurance	❖ > 2,000,000 cycles	
<b>Environmental specification</b>		<b>Physical specification</b>		
Operating temp.	❖ STD. 0°C - 70°C / IND. -40°C - 85°C	Weight (max.)	❖ 115g ± 5g /4.06 oz.	
Non-operating temp.	❖ STD. -20°C - 80°C / IND. -50°C - 95°C	Dimension(W x L x H)	❖ 69.85 x 100.20 x 9.50 (mm)	
Humidity	❖ 10% ~ 95% non-condensing	<b>Conformal coating</b>	❖ Option for special request	
Vibration	❖ 15G compliance to MIL-STD-810F	<b>Warranty</b>		
Shock	❖ 1,500G compliance to MIL-STD-810F	Standard grade	❖ 3 years	
Altitude	❖ 70,000 feet	Industrial grade	❖ 5 years	

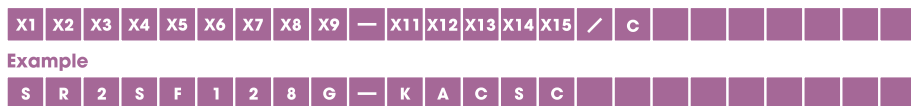
# Product Specifications

Operating temperature supports Standard grade 0 °C ~ 70 °C and Industrial grade -40 °C ~ 85 °C

## Part number list - 2.5" rugged metal SATA flash disk

Product Picture	Capacity	0 °C~ 70 °C	-40 °C~ 85 °C
	<b>8GB</b>	SR2SF008G-KACSC	WR2SF008G-KAISI
	<b>16GB</b>	SR2SF016G-KACSC	WR2SF016G-KAISI
	<b>32GB</b>	SR2SF032G-KACSC	WR2SF032G-KAISI
	<b>64GB</b>	SR2SF064G-KACSC	WR2SF064G-KAISI
	<b>128GB</b>	SR2SF128G-KACSC	N/A

## Part number decoder



### Example



### X1 ▣ Grade

**S** : Standard grade operating temp. 0° C ~ 70 ° C

**W** : Industrial grade operating temp. -40° C ~ 85 ° C

### X13 ▣ Controller grade

**C** : Commercial grade

**I** : Industrial grade

### X2 ▣ The material of case

**R** : Rugged metal casing

**M** : Metal casing

### X14 ▣ Flash IC

**S** : Samsung SLC-NAND flash IC

### X3 X4 X5 ▣ Product category

**2SF** : 2.5" SATA flash disk

### X15 ▣ Flash IC grade / Type

**C** : Commercial grade

**I** : Industrial grade

### X6 X7 X8 X9 ▣ Capacity

**008G** : 8GB

**064G** : 64GB

**016G** : 16GB

**128G** : 128GB

**032G** : 32GB

### C ▣ Reserved for specific requirement

**C** : Conformal-coating

### X11 ▣ Controller

**K** : KTC (Chariot series)

### X12 ▣ Controller version

**A,B,C.....**