2.5" SATA SSD

- Compliant with Serial ATA Revision 3.1 Standard with 6.0 Gb/s transfer rate
- Equipped with advanced PFP technology
- Support Data Security with AES 256 Encryption
- Feature connector support Security Erase and Write Protect
- Support SP Toolbox SMART health monitoring software
- SATA DEVSLP for advanced power saving

Model	SSD700R	SSD500R	SSD300R	SSD300S
Flash Technology	SLC	pSLC	MLC	MLC
Capacity	8GB ~ 256GB	16GB ~ 512GB	32GB ~ 1TB	32GB ~ 1TB
Power Requirement	DC 5.0V	DC 5.0V	DC 5.0V	DC 5.0V
Interface	SATA III/6.0Gbps	SATA III/6.0Gbps	SATA III/6.0Gbps	SATA III/6.0Gbps
Seq. Performance Read (max.)	550 MB/s	530MB/s	530MB/s	530MB/s
Seq. Performance Write (max.)	450 MB/s	450MB/s	450MB/s	450MB/s
Random 4K Read (IOPS max.)	75,000	75,000	71,000	71,000
Random 4K Write (IOPS max.)	75,000	75,000	73,000	73,000
Power Consumption (max.)	320 mA	450 mA	790 mA	790 mA
Power Consumption (idle)	70 mA	75 mA	80 mA	80 mA
Dimension (mm)	100.35 x 69.85 x 6.8	100.35 x 69.85 x 6.8	100.35 x 69.85 x 6.8	100.35 x 69.85 x 6.8
MTBF (est)	≒2,000,000 hrs	≒1,000,000 hrs	≒1,000,000 hrs	≒1,000,000 hrs
Temperature & Humidity (IEC-60068)				
Operating 0°C ~ 70°C: Standard	SPXXXGISSD701RV0	SPXXXGISSD501RV0	SPXXXGISSD301RV0	SPXXXGISSD301SV0
Operating -40°C ~ 85°C: Industrial	SPXXXGISSD701RW0	SPXXXGISSD501RW0	SPXXXGISSD301RW0	◇
Storage Temperature	-55°C ~ 95°C	-55°C ~ 95°C	-55°C ~ 95°C	-55°C ~ 95°C
Operating Humidity	10% ~ 95% (30°C Max Wet Bulb Temp)			
Mechanical (IEC-60068)				
Vibration	15G, 10 ~ 2000Hz	15G, 10 ~ 2000Hz	15G, 10 ~ 2000Hz	15G, 10 ~ 2000Hz
Drop	75cm	75cm	75cm	75cm
Shock	1,500G@0.5ms	1,500G@0.5ms	1,500G@0.5ms	1,500G@0.5ms
Key Features				
Power Shield	◆	◆	◆	◆
PFP	◆	◆	◆	
Feature Connecter	◆	◆	◆	◆
TRIM	◆	◆	◆	◆
S.M.A.R.T	◆	◆	◆	◆
DEVSLP	◆	◆	◆	◆
AES 256	◆	◆	◆	
SP SMART Utility	◆	◆	◆	◆
Warranty	5 years and within TBW	3 years and within TBW	3 years and within TBW	3 years and within TBW

*1. The read and write values may vary depending on different capacities and testing platforms.
*2. ◆=Default ◇=By Request