



# U8 Series

mSATA | SATA 6.0 SSD

## KEY BENEFITS

- SATA 6.0 Gbps interface
- Anti-shock & Anti-Vibration Design
- Pseudo-SLC
- Built-in temperature sensor
- Low Power 9W

## APPLICATIONS



Navigation Map & Entertainment Data



In-Vehicle Data Recording



Autonomous Car Black Box Recording

## INDUSTRIAL-GRADE PERFORMANCE

The **U8 Series** industrial-grade mSATA SSD delivers leading performance in an industry standard JEDEC MO-300 form factor while simultaneously improving system responsiveness for automotive applications. Designed for anti-vibration and anti-shock, the **U8 Series** is tested in a simulated high-temperature environment to ensure normal performance levels without causing hardware damage, making them ideal for in-vehicle environments.

## THERMAL THROTTLING FOR IMPROVED SYSTEM APPLICATIONS

Thermal throttling technology is a feature that enforces a parameter of the operating temperature in the storage device. By implementing this design, the SSD will intelligently make changes on the fly to reduce heat and power usage to protect itself from damage and data error that high temperature might cause.

## FORM FACTOR FLEXIBILITY

The U8 Series is available in JEDEC MO-300 form factor that is electrically, mechanically, and software-compatible with existing JEDEC MO-300 Serial ATA slots. Our flexible design allows interchangeability with existing mobile hard drives based on the mSATA interface standard.

## PSEUDO-SLC ADVANTAGE

The P-SLC uses MLC NAND to simulate SLC like behavior, which provides faster performance and greater endurance. P-SLC technology provides better data retention properties, ideal for automotive applications where reliability and robust data integrity outweighs far more than just the speed of the SSD. P-SLC solution is a cost effective alternative to a true SLC solution at half or less than the cost per gigabyte.

# U8 Series SATA SSD

Model	U8-L2032	U8-L2064	U8-L2128	U8-L2256
<b>Configuration</b>				
Capacity	32 GB	64 GB	128 GB	256 GB
Interface	PCIe Gen 3 x4, NVMe 1.2			
Form Factor	mSATA JEDEC MO-300			
<b>Performance</b>				
Sequential Read/Write <sup>1</sup>	160/40 MB/s	310/80 MB/s	500/160 MB/s	500/300 MB/s
4K Random Read/Write <sup>1</sup>	25K/10K IOPS	40K/15K IOPS	70K/36K IOPS	70K/70K IOPS
Latency Read/Write <sup>1</sup>	95/19 $\mu$ s			
<b>Reliability</b>				
Power on/off cycles	25,000 cycles			
MTBF <sup>3</sup>	2.5 million hours			
<b>Power Consumption</b>				
Idle	0.5 watts			
Active	3 watts max (rms)			
<b>Environment</b>				
Operating Temperature	0 to 70°C			
Non-operating Temperature	-40 to 90°C			

Specifications and data are subject to change without notice. Product image is sample only. Not actual product.

<sup>1</sup>Based on internal testing, performance, may vary depending on host device, OS and application <sup>2</sup>UBER - Unrecovered Bit Error Rate <sup>3</sup>MTBF - Mean Time Between Failures based on parts stress analysis <sup>4</sup>Standard 5-year warranty

For more information, please visit:

**ssstc.com**

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