

ALFAMEMORY SSP13-L100

PORTABLE SSD DATASHEET



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SSP13-L100 Portable SSD Datasheet

1.0 BRIEF INTRODUCTIONS

With ALFAMEMORY 3D-NAND flash memory and a USB 3.1 Gen 2 interface, the SSP13-L100 SATA Portable SSD provides transfer speeds of up to 540 MB/s, that's up to 4.9x faster than external HDDs. Transfers and backups of large-sized data including 4K videos and high-resolution photos will be much quicker and faster.

Take your data on-the-go with the SSP13-L100 Portable Solid-State Drive from ALFAMEMORY. This sleek and slim drive features a brushed aluminum finish and is available in 256GB, 512GB, 1TB of storage space. To keep your data, secure physically and otherwise, it's drop-, shock-, vibration-resistant. Performance-wise, it has transfer speeds of up to 500 MB/s and a write speed of up to 450 MB/s. Connect it to your system using the included USB Type-A to Type-C cable, and it's ready to use.

Performance may vary depending on host configuration. Must support USB 3.1 Gen 2 and the UASP mode must be enabled.

1.1 CHARACTERISTIC

- Capacity: 240GB-256GB, 480GB-512GB, 960GB-1TB
- External interface USB3.1 Gen2 Type C
- Built in M.2 2280 SATA SSD (B Key and M Key) and USB 3.1 Gen 2 Bridge IC
- 5V Power supply without additional power

1.2 PRODUCT FEATURES

1.2.1 APPLICATION

- PC, Notebook or Macbook with USB port

1.2.2 OPERATION SYSTEM

- Support Microsoft Windows 10, Windows 8.1, Windows 7, Vista, XP
- Supports 1-port USB1.1; USB2.0; USB3.0; USB3.1
- Support Mac OS 10.3 or later versions
- Support Linux kernels 2.5 and above

1.2.3 NAND FLASH INTERFACE

- Support MLC/TLC/QLC Flash
- Global Wear-Leveling
- Power-cycling handling

2.0 PHYSICAL SPECIFICATIONS

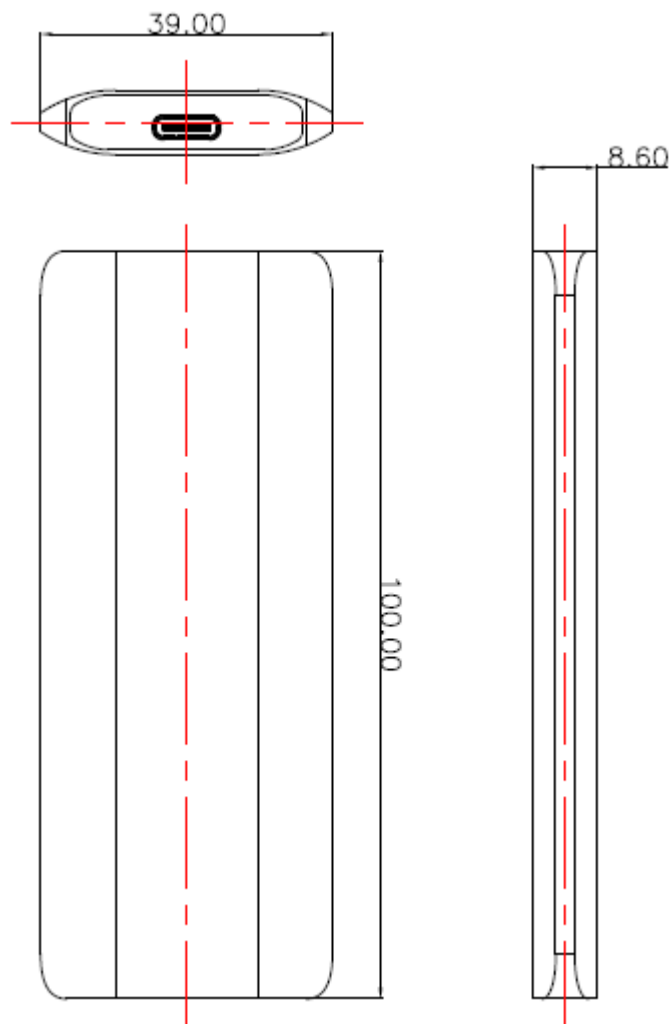
2.1 MECHANICAL SPECIFICATIONS

Length: 100mm

Width: 39mm

Thickness: 8.6mm

Figure 1: PSSD Outline Drawing.



3.0 ELECTRICAL SPECIFICATIONS

Operating Voltage: $V_{cc} = 5V \pm 10\%$

Modes: USB3.1 10Gbs or USB3.0 5Gbps or USB2.0 480Mbps standards

3.1 PERFORMANCE SPECIFICATIONS

Table 1: Data Transfer Speed R/W up to)

Capacity	ATTO		CDM (Seq Q32T1)		AS SSD(Seq)	
	Read	Write	Read	Write	Read	Write
240GB/256GB	500	450	500	450	500	450
480GB/512GB	500	450	500	450	500	450
960GB/1TB	500	450	500	450	500	450

3.2 POWER AND TEMPERATURE CONDITIONS

Table 2 : Power consumption

Capacity	Product status(W)		
	Idle	Read	Write
240GB/256GB	0.73W	1.95W	2.15W
480GB/512GB	0.74W	2.05W	2.2W
960GB/1TB	0.79W	2.05W	2.2W

4.0 ENVIRONMENTAL SPECIFICATIONS

Environmental Conditions

Storage Temperature Range: -25 °C to 85 °C

Device in operation Temperature Range: 0 °C to 70 °C

Humidity:

Storage: 20%~95%

Device in operation: 20%~60%

5.0 COMPLIANCE SPECIFICATIONS

All Portable SSD are compliant with the following standards and regulations:

- RoHS
- FCC
- CE

6.0 INSTALLATION

BEFORE GETTING STARTED

Back Up Your Data

VISUAL INSPECTION

Inspect the box and device for the following.

- a. Box is damaged or water-stained
- b. Any damage to the Portable SSD

USING THE PORTABLE SSD IN A WINDOWS OS

No modifications need to be made to use the Portable SSD in a Windows OS platform

USING THE PORTABLE SSD IN A LINUX O/S

No modifications need to be made to use the Portable SSD in a Linux OS platform

USING THE PORTABLE SSD IN MAC OS O/S

Portable SSD is used on the Mac platform, the file system must be FAT32

FOR MORE INFORMATION

For Technical Support:

If additional support is needed, please visit the Alfamemory Web site at www.alfamemory.com for the following topics:

- **Warranty Services:** Includes the warranty service policy and the RMA request forms.
- **Technical Information:** Includes product data sheets and various USB whitepapers.
- **Tools Section:** Includes frequently asked questions (FAQs).

For More Information or Further Technical Support Please Contact:



SSP13-L100 Portable SSD Datasheet

Alfamemory Technology CO., Ltd.

Support: Support@alfamemory.com

CHANGE RECORD

Table 3:Change Record

Version	Release Date	Changes
1.0	July 3th, 2019	Initial Release in new template
1.1	Sep 7th, 2020	Modify Characteristic