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ELUTENG UA-ELT-MSATA-USB-ADTC

ELUTENG mSATA to USB 3.0 Adapter Instruction Manual

Model: UA-ELT-MSATA-USB-ADTC

1. PRODUCT OVERVIEW

The ELUTENG mSATA to USB 3.0 Adapter is designed to convert an mSATA Solid State Drive (SSD) into a portable USB 3.0 flash drive. This allows you to reuse older mSATA SSDs as external storage for laptops or desktop computers, providing a convenient solution for data transfer and backup.



Image 1.1: ELUTENG mSATA to USB 3.0 Adapter

Key Features:

- **Direct USB Connection:** Plugs directly into a USB port, eliminating the need for an additional USB cable.
- **High Compatibility:** Utilizes the ASM1153E chip for broad compatibility with various systems and stable performance.
- **Fast Data Transfer:** Supports USB 3.0 speeds up to 200MB/s and UASP acceleration for speeds up to 400MB/s+.
- **Portable Design:** Compact form factor for easy transport and use as an external drive.

2. IMPORTANT COMPATIBILITY NOTES

Before installation, please review the following compatibility requirements to ensure proper function:

Only Support mSATA SSD

Not Support SATA Mini PCIE/PATA mini PCIE/RAID MINI PCIE

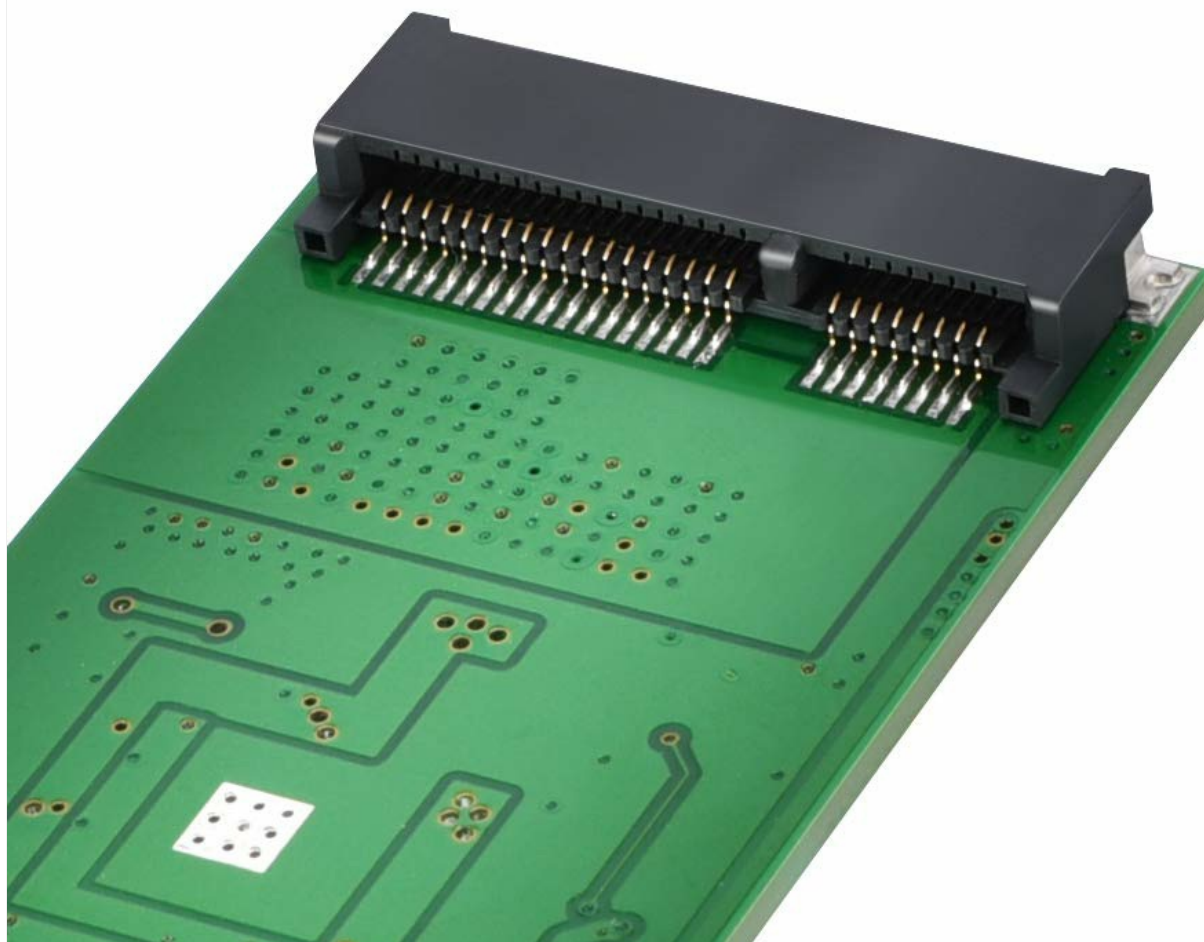


Image 2.1: Adapter showing mSATA SSD slot

- This adapter supports **mSATA SSDs only** (typically 3cm x 5cm).
- It **does not support** SATA Mini PCIE, PATA Mini PCIE, or RAID Mini PCIE SSDs.
- Ensure your SSD's current draw is **less than 1.5A**.
- If using a new mSATA SSD, it must be **formatted** before the computer can recognize it.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x ELUTENG mSATA to USB 3.0 Adapter
- 1 x Small Screwdriver
- Mounting Screws for mSATA SSD

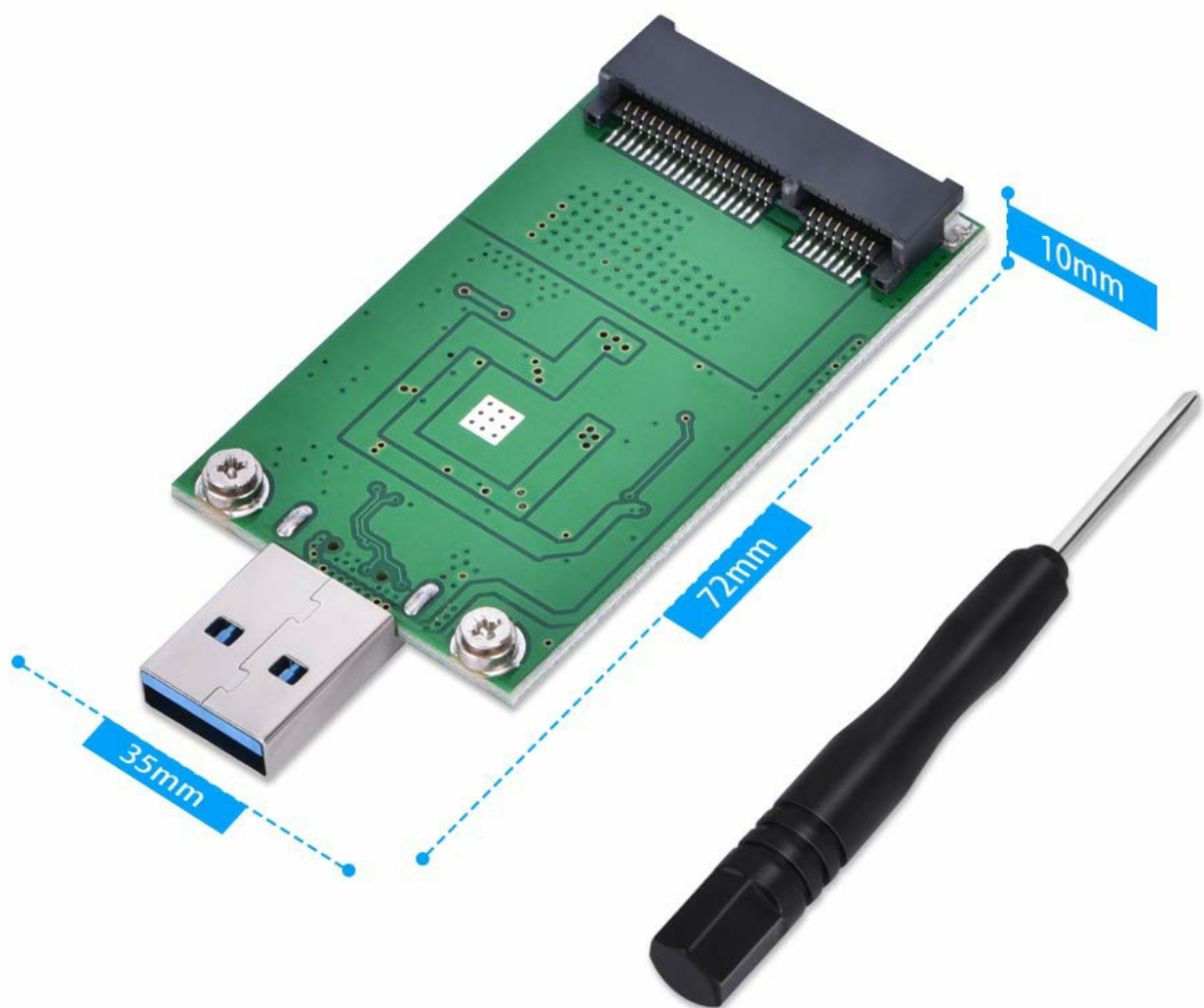


Image 3.1: Adapter with included screwdriver and dimensions

4. INSTALLATION GUIDE

Follow these steps to install your mSATA SSD into the adapter:

1. **Prepare Tools:** Gather the provided screwdriver and the mSATA SSD you intend to use.
2. **Insert mSATA SSD:** Carefully align your mSATA SSD with the slot on the adapter. Insert the SSD at an angle into the slot until it is fully seated.
3. **Secure with Screws:** Gently press down the mSATA SSD to make it level with the adapter board. Use the provided screws and screwdriver to fasten the SSD securely to the adapter.
4. **Installation Complete:** The mSATA SSD is now installed and ready for use.

Your browser does not support the video tag.

Video 4.1: Visual guide on how to install an mSATA SSD into the ELUTENG adapter.

5. OPERATING INSTRUCTIONS

Using the ELUTENG mSATA to USB 3.0 Adapter is straightforward:

1. **Connect to Computer:** Plug the adapter directly into an available USB 3.0 port on your desktop or laptop computer.
2. **System Recognition:** Your operating system should automatically detect the adapter as an external storage device.
3. **Format New SSDs:** If you are using a brand new mSATA SSD, you will need to format it through your operating system's disk management utility before it can be used to store data. Refer to your operating system's documentation for instructions on disk formatting.
4. **Data Transfer:** You can now transfer files to and from the mSATA SSD as you would with any other external drive.



Image 5.1: Adapter connected to a laptop's USB port

UASP Acceleration:

To achieve optimal read and write speeds (up to 400MB/s+), ensure your computer supports UASP (USB Attached SCSI Protocol). UASP-enabled systems typically include Windows 8 and later, and Mac OS 8 & 9. Actual speeds depend on your specific mSATA SSD's performance.

High Speed Transmission

USB+UASP , Speed can up to 400MB/s+



Actual speed depends on your SSD speed



Note: UASP is supported only on Win8 and Mac OS 8&9.

Image 5.2: Data transfer speed comparison

6. MAINTENANCE

The ELUTENG mSATA to USB 3.0 Adapter requires minimal maintenance:

- Keep the adapter clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the adapter to extreme temperatures or humidity.
- Handle the adapter carefully, as it is a bare circuit board without an enclosure. Avoid dropping it or applying excessive force.
- When not in use, store the adapter in a safe place to prevent damage to the exposed components.

7. TROUBLESHOOTING

If you encounter issues with your ELUTENG mSATA to USB 3.0 Adapter, consider the following:

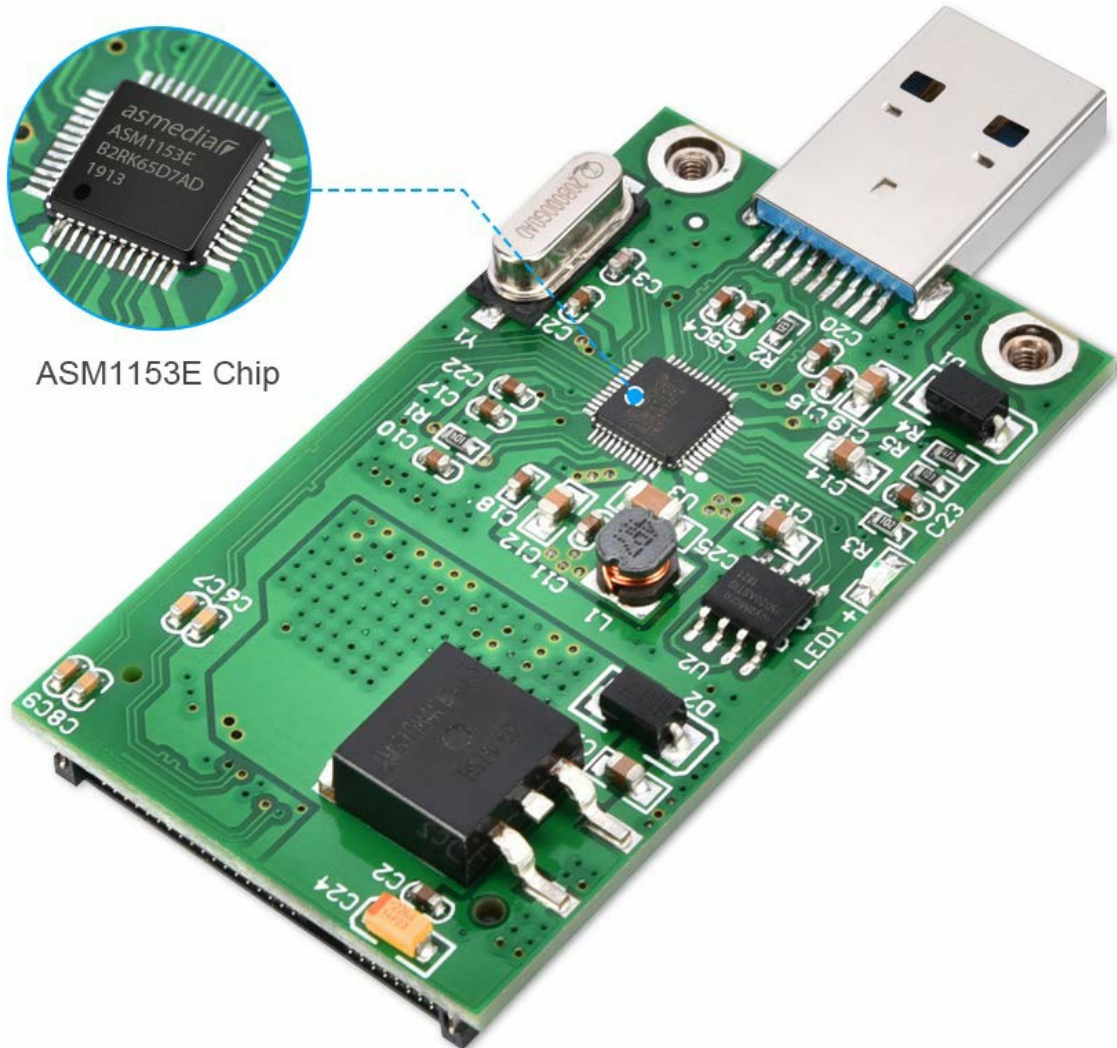
- **SSD Not Recognized:**
 - Ensure the mSATA SSD is correctly seated and secured in the adapter.
 - Verify that the SSD is an mSATA type and not a different form factor (e.g., M.2 NVMe, SATA Mini PCIE).
 - If it's a new SSD, ensure it has been formatted. Check your computer's Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but unformatted.
 - Try connecting the adapter to a different USB port on your computer or another computer to rule out port issues.
- **Slow Transfer Speeds:**
 - Ensure you are connected to a USB 3.0 port (usually blue inside). Connecting to a USB 2.0 port will result in slower speeds.
 - Verify that your operating system supports UASP for maximum performance (Windows 8+, macOS 8&9+).
 - The actual speed is also limited by the performance of your mSATA SSD.
- **Adapter Gets Hot During Use:**
 - It is normal for the adapter and SSD to generate some heat during data transfers, especially during large or prolonged operations. This is generally not a cause for concern unless it leads to performance issues or system instability.

8. PRODUCT SPECIFICATIONS

Brand	ELUTENG
Model Number	UA-ELT-MSATA-USB-ADTC
Compatible Devices	Desktop, Laptop
Connector Type	USB Type B
Number of Ports	2 (mSATA, USB)
Current Rating	1.5 A
Nominal Power	1.5 watts
Item Weight	0.03 kg
Color	Green
Chipset	ASM1153E

ASM1153E Chip

Highly Compatible|Stable Signal|Powerful Power Supply



ASM1153E Chip

Image 8.1: ASM1153E Chip on the adapter board

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your ELUTENG mSATA to USB 3.0 Adapter, please refer to the documentation included with your purchase or contact ELUTENG customer service directly. Contact details can typically be found on the official ELUTENG website or through your retailer's support channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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