SPIISD V2 User Manual

The previous version, SPIISD V1, lacked an interface for directly viewing image files and lagged behind other devices. The primary goal of V2 was to introduce an LCD display with button controls. Additionally, some users faced challenges creating image files or misnaming file suffixes. In V2, there are no suffix rules for supported image files—simply select files using the buttons.

Improvements in SPIISD V2.0

- **Enhanced Usability**: The addition of an OLED(LCD) and button controls makes the device more user-friendly. SPI-compatible OLEDs are supported, and three types have been thoroughly tested. A stylish splash screen is displayed immediately after powering on.
  * Check here for compatible OLED: https://ameblo.jp/keroxiee1016/entry-12882949657.html
  Note: The eject button from V1 has been removed. To use a single image, ensure the boot image is placed first.
- **Increased Speed**: Optimized performance for IIc Plus and IIgs systems.
- **Alerts for SD Card Issues**: The device now displays alerts if the SD card is missing or has errors.
- **No Need for config.txt Creation**: The configuration file is auto-generated. Previously, beginners struggled to optimize boot images manually, but now everything can be done with button operations. Simply save disk images to the SD card, and you're ready to go.
- **Wide Compatibility**: Supports Apple II Plus, IIe, IIc, IIc Plus, and IIgs.
- **User-Friendly Assembly**: The kit uses DIP components and has all parts placed on the PCB's top layer, with soldering done on the back layer. Advanced soldering skills are not required. Fully assembled, tested, and guaranteed units are also available for those who prefer pre-built devices.

For assembly and soldering instructions, please refer to the **Assembly Guide**.

How to Use

1. **Format the MicroSD Card**
    - Use **FAT32** (preferred) or **FAT16** format. Most commercially available SD cards are preformatted as FAT32. Save a 32MB ProDOS disk image file to the SD card. Supported file extensions are: `.po`, `.2mg`, `.hdv`.
    - With V2, files no longer need to be stored at the root level. You can organize files into subdirectories, making management easier by creating folders on a PC.

    For creating new image files, we recommend using **DiskJockey**: https://diskjockey.onegeekarmy.eu

    File suffixes do not need to follow any specific rules. However, for users in non-English language environments, ensure filenames use alphanumeric characters in English to avoid potential encoding issues.

2. **Connect and Power On**
    - Connect the SPIISD to your Apple II and power it on. Ensure there is no simultaneous access between the Apple II and the SPIISD during this process. Operating the SPIISD buttons while the Apple II is accessing it may cause the system to freeze.
    - If the system freezes, turn off the Apple II and try again.
3. **Initial Setup**
    - If the SD card is new, pressing **Enter** on the SPIISD will display empty slots for Disk 1 through Disk 4.
    - Press the corresponding number for the disk you want to configure, and enter file selection mode. Select the desired file and press **Enter** to confirm.
4. **Config File Creation**
    - A `config.txt` file will be generated in the SD card's root directory, serving as an index of bootable files. Once configured, the SPIISD will automatically read this file at startup.
5. **Booting Instructions**
    - Booting behavior varies by machine:
        - **Apple IIc with ROM4x**: Automatically recognized and booted.

- **Apple IIe with SoftSP (Grappler Minus) Card + Disk II Card**: Press **CTL+RST** and enter the command PR# followed by the slot number of the SoftSP card.
- For other cards, follow the respective card's usage instructions.

Enjoy the enhanced functionality of SPIISD V2! For any issues or support, please contact us.