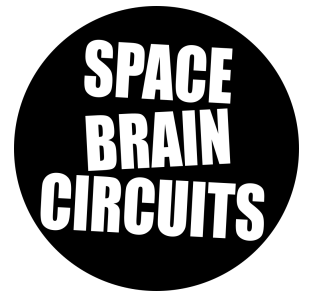


# MidiVolts Modular

## Windows Firmware Manual



### Things you will need:

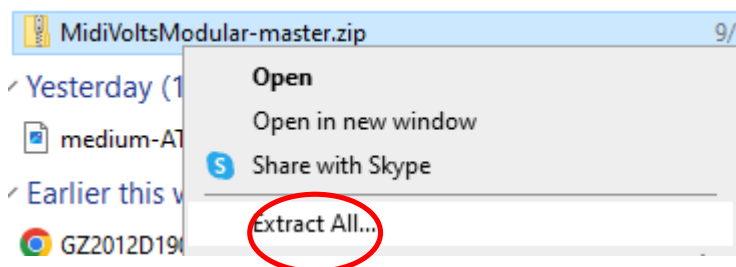
- Mini USB cable
- Windows Computer

### 1. Download firmware files.

- Go here: <https://github.com/SpaceBrainCircuits/MidiVoltsModular>
- Download files by clicking **Code** and **Download Zip**.

A screenshot of the GitHub repository page for "MidiVoltsModular". The repository is public and has 1 branch and 0 tags. The "Code" button is circled in red. A dropdown menu is open, showing options to clone the repository using HTTPS, SSH, or GitHub CLI, or to download the ZIP file. The "Download ZIP" option is circled in red. The repository contains three files: "MidiVolts Modular 2.0", "OperatorsManual2.0 - Modular.pdf", and "SysExGuide2.0.pdf".

### 2. Right click the zip file, and *Extract All...*



### 3. Navigate to firmware upload directory.

a. Firmware -> Windows -> MidiVolts 1.2

Master > MidiVolts Modular 2.0 > Firmware > Windows > MidiVolts 1.2				
Name	Date modified	Type	Size	
env	9/8/2023 12:11 AM	File folder		
sysex	9/8/2023 12:11 AM	File folder		
Notes.txt	9/8/2023 12:11 AM	Text Document	1 KB	
sbc.exe	9/8/2023 12:11 AM	Application	5,621 KB	

4. Power on MidiVolts Modular eurorack module and plug mini USB cable from the MidiVolts Modular to your windows PC.

5. Double click sbc.exe file.

6. If you see a display similar to the image on the right, Firmware is now installed!

7. Restart MidiVolts Modular.

### 8. Troubleshooting:

If you do not see the screen as shown on the right.

1. Verify your USB is connected to both MidiVolts and your computer.
2. Make sure the module is powered on.
3. Contact me and I will help you!  
**spacebraincircuits@gmail.com**

```
Connecting to programmer: .
Found programmer: Id = "CATERIN"; type = S
    Software Version = 1.0; No Hardware Version given.
Programmer supports auto addr increment.
Programmer supports buffered memory access with buffersize=128 bytes.

Programmer supports the following devices:
    Device code: 0x44

avrdude.exe: AVR device initialized and ready to accept instructions

Reading | ##### | 100% 0.01s

avrdude.exe: Device signature = 0x1e9587 (probably m32u4)
avrdude.exe: NOTE: "flash" memory has been specified, an erase cycle will be performed
    To disable this feature, specify the -D option.
avrdude.exe: erasing chip
avrdude.exe: reading input file ".\env\scripts\FourVoice1.04.hex"
avrdude.exe: writing flash (26654 bytes):

Writing | ##### | 100% 2.73s

avrdude.exe: 26654 bytes of flash written
avrdude.exe: verifying flash memory against .\env\scripts\FourVoice1.04.hex:
avrdude.exe: load data flash data from input file .\env\scripts\FourVoice1.04.hex:
avrdude.exe: input file .\env\scripts\FourVoice1.04.hex contains 26654 bytes
avrdude.exe: reading on-chip flash data:

Reading | ##### | 100% 0.73s

avrdude.exe: verifying ...
avrdude.exe: 26654 bytes of flash verified

avrdude.exe: safemode: Fuses OK (E:CB, H:D0, L:FF)

avrdude.exe done. Thank you.

Finished!
```