

MidiCard V1, V1.1, Plus V1, and Plus V2

Living User Guide

Last updated 2025/1/20

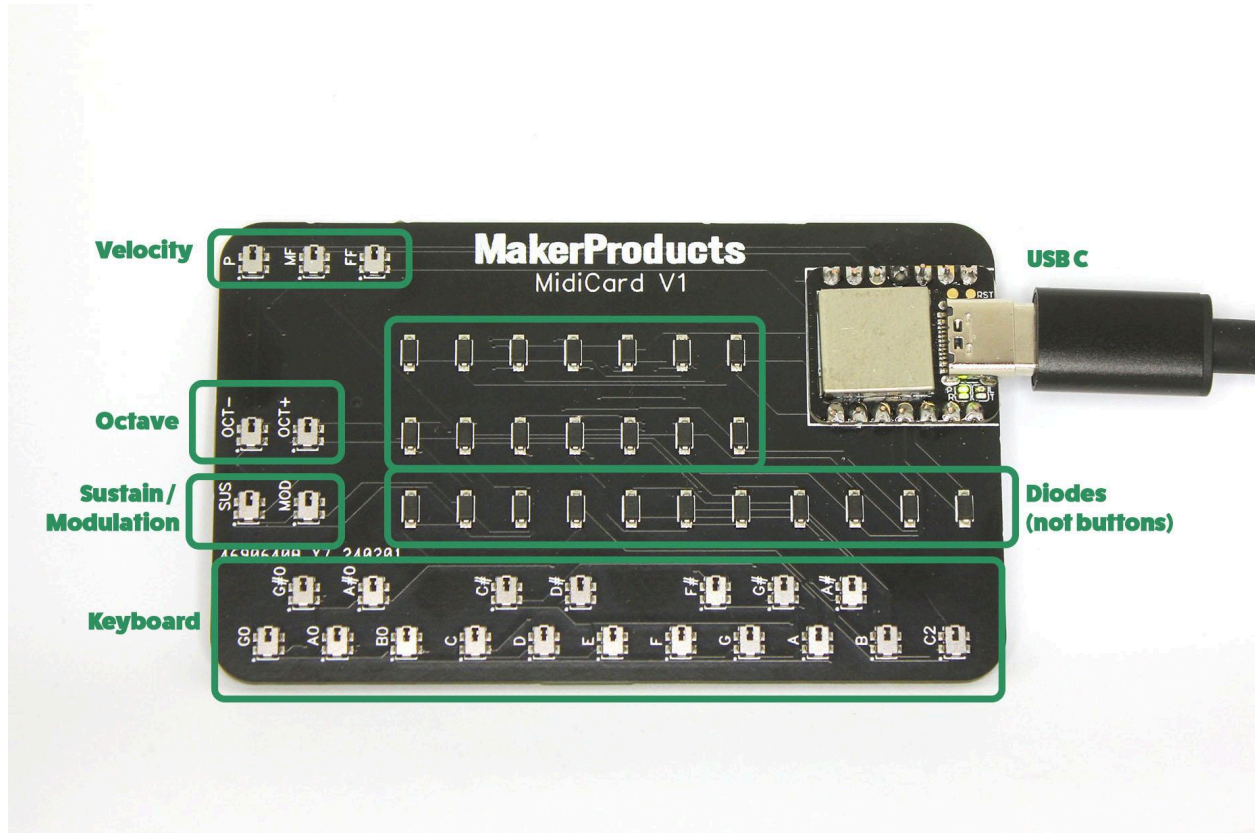
Setup

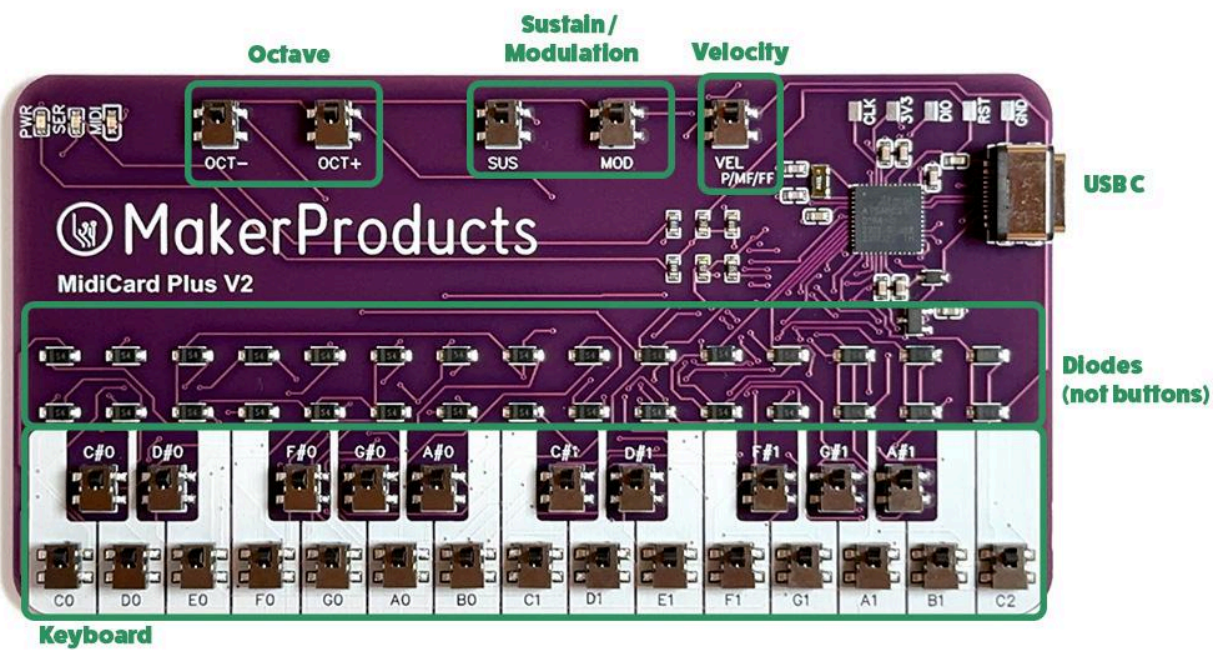
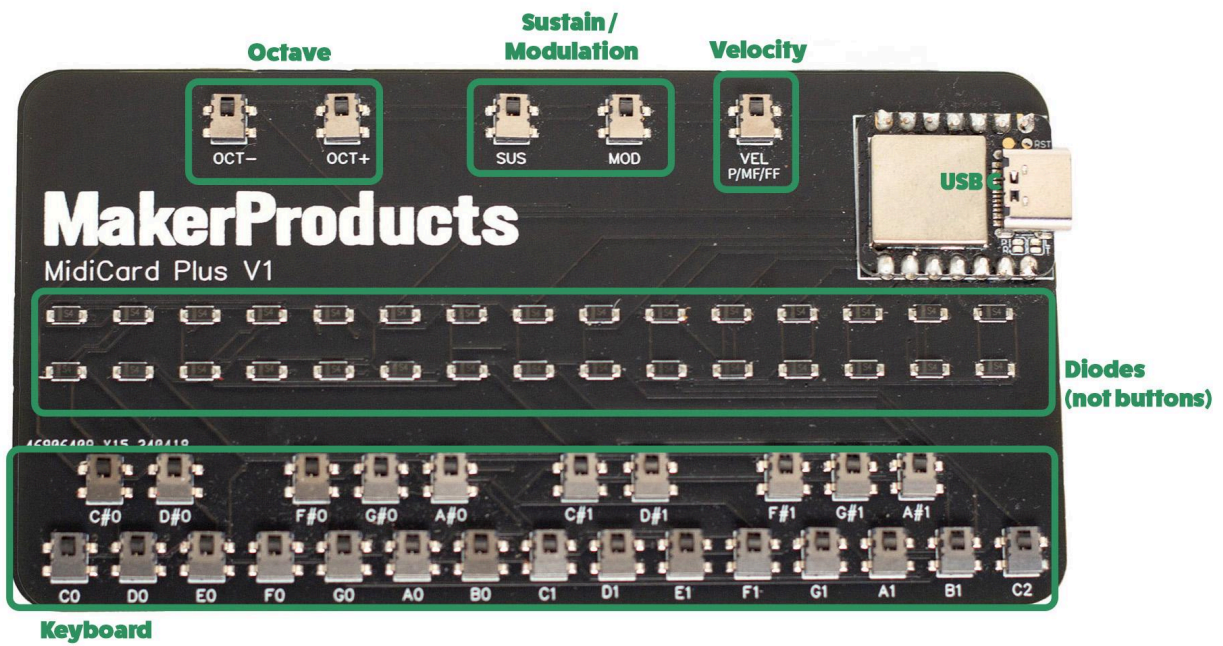
MidiCard is a caseless PCB (Printed Circuit Board). It is a 3V low-current device that will not shock you when plugged into a working USB port, but like all electronics, care should be taken not to shock it with static electricity or get it wet.

Due to their size, the keyboard buttons are fragile, especially on the original MidiCard. Please keep the MidiCard in its shipping box or optional pouch when traveling with it.

To start using the MidiCard, plug the included USB C cable into the USB C port and the other end into a USB C port on your iPhone 15, Android, Mac, PC, or iPad. MidiCard can be used with any USB C cable as long as it is not “charge only”. To use the MidiCard with an iPhone 14 or under, use the included (if purchased) USB C to Lightning On The Go adapter. To plug MidiCard into a USB A port, use an adapter such as: <https://a.co/d/0I3kHbg>

Button Layouts





The green LED should light up and the blue LED should blink as you press buttons.

MidiCard is a class-compliant MIDI keyboard, meaning no drivers are required to install it. You must have USB MIDI-compatible software to use it, it does not make sound on its own.

MidiCard V1.1 has a slightly different layout.

- The Octave keys are swapped with the Sus/Mod keys for easier access when playing the keyboard.
- The Velocity keys are now in the center of the top section of the MidiCard to avoid accidental presses when holding the device.
- The keys are spread slightly further apart for easier playing.
- All functions are the same as V1.

MidiCard Plus V1 and V2 have one velocity key and 25 keyboard keys.

- Use the Velocity key to toggle between P (soft), MF (medium), and FF (loud).
- All of the other functions are the same as the MidiCard V1, but with two octaves of keys.

Compatible Software

MidiCard is compatible with many MIDI apps, but for iPhone, the free app **Synth One** is recommended. <https://apps.apple.com/us/app/audiokit-synth-one-synthesizer/id1371050497>

MidiCard has been tested with Logic Pro (Mac), Finale (Mac and PC), ProTools (Mac), GarageBand (Mac, iPad and iPhone), Ableton Live (Mac and PC), FL Studio (PC), BandLab (PC), and should work with any USB MIDI-compatible software. It also works with MIDI-compatible websites in Google Chrome.

For most MIDI Software, simply plug it in, load an instrument and start playing. For some software such as FL Studio, you may need to choose “Options > MIDI Settings” and choose the MidiCard as an input device. It will show up as “MidiCard V1”.

Function Keys

Press the **OCT+** and **OCT-** keys to switch octaves up or down. Press them multiple times in a row to continue moving the range up or down. The Octave keys also function as a MIDI Panic (all notes off) when pressed.

Hold the **SUS** button and press the keyboard keys to sustain notes (Control Change or CC 64 at 127). Release the **SUS** button to release the sustain pedal (CC 64 at 0).

Press and hold a keyboard key and press the **MOD** button to send Modulation at 127 (CC 1 at 127). Release the MOD button to set Modulation to 0 (CC 1 at 0).

Press **P** to change all keys' velocity to quiet (Velocity 32). Press **MF** to change all keys' velocity to medium (Velocity 64). Press **FF** to change all keys' velocity to loud (Velocity 127). On the MidiCard Plus, press the **velocity button** to toggle between P, MF and FF.

Reprogramming

MidiCard V1, V1.1, and Plus V1 uses a Seeed Studio Xiao SAMD21 microprocessor for processing and can be reprogrammed (such as changing the value of the velocity buttons) with an Arduino IDE.

See <https://wiki.seeedstudio.com/Seeeduino-XIAO/> for getting the drivers and board library installed for Arduino, and <https://github.com/alana314/MidiCard> for the source code. The MidiCard Plus has its own branch.

MidiCard Plus V2 uses its own firmware, but can still be programmed with Arduino IDE.

Care

MidiCard is a Printed Circuit Board, and care should be taken not to get it wet or shocked with static electricity. To clean it, use a dry cloth.

Please store the MidiCard in its shipping box or optional pouch to avoid damaging the keys. Care should also be taken to keep the keys free of debris and grease that might jam them, to extend their life.

If you damage a button, we offer button repairs for a \$15 fee if you ship the MidiCard back to us. For details, please contact makerproductsstore@gmail.com.

Support

For support please contact makerproductsstore@gmail.com.