

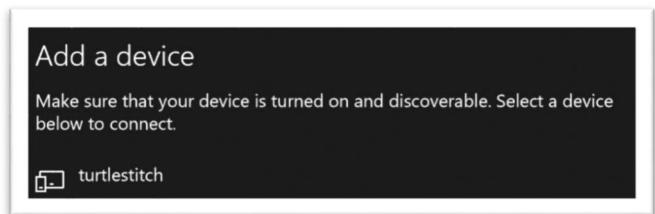
DropStitch: Wireless transfer of files to an Embroidery Machine

The Raspberry pi zero W connects to the usb port of the Embroidery Machine, and provides Bluetooth and Wifi network connections, enabling files to wirelessly transferred. (dropstitch.design.blog)

The instructions below describe how to do this from a windows computer to a Brother Embroidery Machine, however this should work for different operating systems, providing they support Bluetooth BLE.

Transfer of files using Bluetooth.

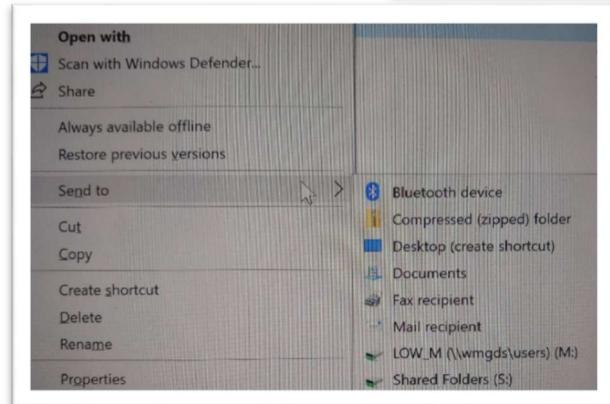
- 1) **Booting the RPi.** Plug in the raspberry pi zero to the Embroidery machine usb port, using a micro usb connection on the raspberry pi. Its important that you use the RPi micro usb port marked 'usb' (coloured in red with a marker pen). When its finished booting – there should be a green LED visible on the top of the RPi. This can take up to 2 minutes – so wait until you see the green LED.
- 2) **Pair your computer and the RPi.** Once the RPi is booted, it is now possible to pair your computer with the RPi via bluetooth. The specific instructions will be different as its dependent on your operating system. The instructions for Windows 10 are described here. Make sure that Bluetooth is enabled on your computer. In 'Bluetooth & Other Devices' select 'Add a Bluetooth device'.



Click on turtlestitch and after a few seconds, your device will pair – as shown in the image on the side.



- 3) **Transfer Files to RPi.** Now your computer is paired with the RPi, right click on any '.dst' file and select 'Send to' and then 'Bluetooth device', as shown in the image to the right.



Select 'turtlestitch' and follow the dialog until the file is transferred – as shown.



- 4) **Mount RPi as a USB drive on the Embroidery Machine.** Send any file with an extension '.eject' In order for the Embroidery Machine to see the newly transferred files, it needs to remount the USB drive. The current mechanism for doing this is to transfer a file with the extension '.eject'.
- 5) **View and use the files on the Embroidery Machine.** Follow your embroidery machine's normal process to read the USB drive. You should see your '.dst' files. You can continue to follow commands 1 to 5, to add more files to the RPi. If you transfer a file with the same name twice, it will be renamed with a number added to the end of the file name.
- 6) **Clear the USB drive.** To empty the RPI USB drive simply send any file via Bluetooth with the extension '.empty'.