

Canique Pico Gateway Manual

Revision 0.1

Firmware Update

You can update the firmware of the RP2040 chip of your Pico Gateway by using a .uf2 firmware file provided by Canique.

You can find the newest firmware on

<https://resources.canique.com/pico-gw/rpi-pico-fw/>

There are 2 possibilities to do a FW update. Procedure B will only work if your Pico Gateway is running firmware released after May 2023.

Procedure A:

1. Open the enclosure by removing the 4 screws on the bottom of the enclosure
2. Connect a USB cable to the Pico Gateway but leave the other side of the USB cable unconnected
3. Press the small white button near the USB connector and keep it pressed while connecting the other side of the USB cable to a computer.
4. A new drive should show up on your computer (Windows or Linux)
5. Copy the firmware file (it has the suffix .uf2) to this drive and wait a couple of seconds until the Pico Gateway restarts (LED will blink)
6. Now you can disconnect the USB cable and re-connect the Pico Gateway to its normal power supply.

Procedure B:

1. While your Pico GW has an ethernet cable plugged in going to your router, connect it via USB cable to a PC. That PC will later upload the firmware.
2. Run this command from any Linux PC in your network, but replace the IP 192.168.10.112 by your Pico GW's IP address:
`curl -X POST http://192.168.10.112/requestUsbFirmwareUpdate.cgi`

3. Now unplug the ethernet cable from your Pico GW within 60 seconds after running the command from step 2. The unplugging serves to prove that you have physical access to the Pico GW.
4. Your Pico GW will enter firmware upload mode now. A new drive will appear on your PC. Proceed with steps 5-6 from procedure A.