pico_w with bluetooth support Built pico-examples on pi4-27 and rsync'ed to pi4-50, pi4-60, and pi4-20. sm_pairing_central between

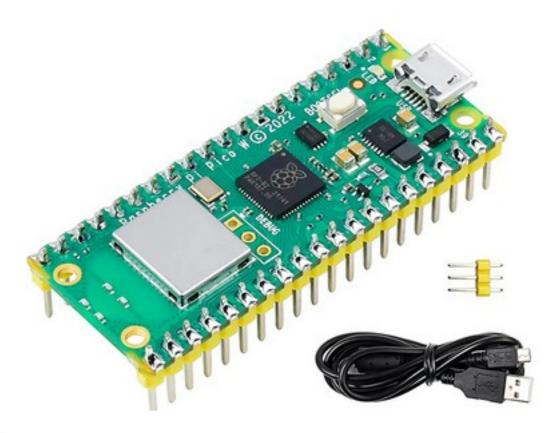
sm_pairing_peripheral adding example of a pico_w with temperature sensor 02/11/23

https://www.cnx-software.com/2023/02/11/raspberry-pi-pico-w-bluetooth-le-support/

2 Raspberry Pi 4



2 pico_w



2 USB



Updated pico-sdk from Jun 29 22 SDK 1.4.0 release to Feb 10 23 release SDK 1.5.0

cd sdk/

git clone https://github.com/develone/pico-sdk.git

```
cd pico-sdk
git submodule update --init
release SDK 1.5.0
cd ~/
git clone https://github.com/develone/pico-examples.git
cd pico-examples
mkdir build
Need to modify the following files with
#include "pw ssid.h"
if (cyw43_arch_wifi_connect_timeout_ms("your wifi ssid", WIFI_PASSWORD,
CYW43_AUTH_W
    modified: pico_w/bt/standalone/server_with_wifi.c
    modified: pico_w/wifi/freertos/iperf/picow_freertos_iperf.c
    modified: pico_w/wifi/freertos/ping/picow_freertos_ping.c
    modified: pico_w/wifi/iperf/picow_iperf.c
    modified: pico_w/wifi/ntp_client/picow_ntp_client.c
    modified: pico w/wifi/tcp client/picow tcp client.c
    modified: pico_w/wifi/tcp_server/CMakeLists.txt
    modified: pico_w/wifi/tcp_server/picow_tcp_server.c
    modified: pico_w/wifi/tls_client/picow_tls_client.c
    modified: pico w/wifi/udp beacon/picow udp beacon.c
Need to add a files pw_ssid.h
#ifndef _SSID_H
#define _SSID_H
char WIFI_PASSWORD[] = "your wifi password";
#endif
    pico_w/wifi/freertos/ping/pw_ssid.h
    pico_w/wifi/iperf/pw_ssid.h
    pico_w/wifi/ntp_client/pw_ssid.h
    pico_w/wifi/tcp_client/pw_ssid.h
    pico_w/wifi/tcp_server/pw_ssid.h
    pico_w/wifi/tls_client/pw_ssid.h
    pico_w/wifi/udp_beacon/pw_ssid.h
cmake -DPICO_BOARD=pico_w -DTEST_TCP_SERVER_IP="xx.xx.xx.xx" -
DWIFI SSID="your ssid" -DWIFI PASSWORD="your ssid password" -
DFREERTOS_KERNEL_PATH:PATH=/home/devel/FreeRTOS-Kernel ..
```

make

pi4-20

openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program pico_w/bt/sm_pairing_central/picow_bt_example_sm_pairing_central_background.elf reset exit"

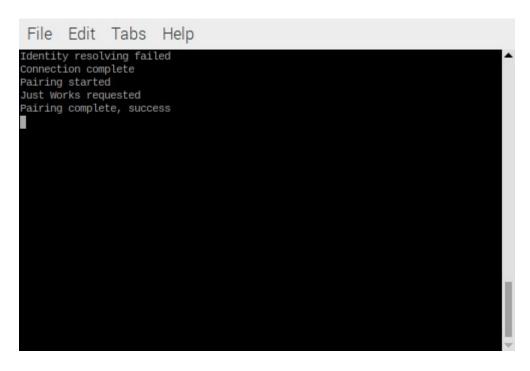
```
File Edit Tabs Help

BTstack up and running on 28:CD:C1:01:35:6B.

Start scaning!
Found remote with UUID 1111, connecting...
Connection complete
Pairing started
Just works requested
Pairing complete, success
```

pi4-60

openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program pico_w/bt/sm_pairing_peripheral/picow_bt_example_sm_pairing_peripheral_background.elf verify reset exit"



Just tested 2 pico_w openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program pico_w/bt/standalone/picow_ble_temp_sensor.elf verify reset exit"

BTstack up and running on 28:CD:C1:01:35:6B. Write temp 25.64 degc

openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program pico_w/bt/standalone/picow_ble_temp_reader.elf verify reset exit"

BTstack up and running on 28:CD:C1:08:17:20. Connecting to device with addr 28:CD:C1:01:35:6B. read temp 25.63 degc