

\*\*\*\*\*Default\*\*\*\*\*

Pico2\_w pico-examples

04/11/25

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“git clone <https://github.com/develone/pico-examples.git> -b test-dev”

#!/bin/bash

#rm -rf build-2350

#mkdir build-2350

cd build-2350

cmake .. -DPICO\_BOARD=pico2\_w -DPICO\_PLATFORM=rp2350 -DWIFI\_SSID="WIFI\_SSID"  
-DWIFI\_PASSWORD="WIFI\_PASSWORD"

make

The first issue in the build

**CMake is dropping a preprocessor definition: WIFI\_PASSWORD="xxxxxxxxxx#xx"**

The next tried adding

export WIFI\_SSID="WIFI\_SSID"

export WIFI\_PASSWORD="WIFI\_PASSWORD"

Modified the file

devel@pi5-90:~/pico-examples \$ git diff pico\_w/CMakeLists.txt

diff --git a/pico\_w/CMakeLists.txt b/pico\_w/CMakeLists.txt

index f66c02e..35fd59a 100644

--- a/pico\_w/CMakeLists.txt

+++ b/pico\_w/CMakeLists.txt

@@ -1,28 +1,9 @@

cmake\_minimum\_required(VERSION 3.12)

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-if (PICO\_CYW43\_SUPPORTED) # set by PICO\_BOARD=pico\_w

- if (NOT TARGET pico\_cyw43\_arch)

- message("Skipping Pico W examples as support is not available")

- else()

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- if (DEFINED ENV{WIFI\_SSID} AND (NOT WIFI\_SSID))

- set(WIFI\_SSID \$ENV{WIFI\_SSID})

- message("Using WIFI\_SSID from environment ('\${WIFI\_SSID}')

- endif()

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- if (DEFINED ENV{WIFI\_PASSWORD} AND (NOT WIFI\_PASSWORD))

- set(WIFI\_PASSWORD \$ENV{WIFI\_PASSWORD})

- message("Using WIFI\_PASSWORD from environment")

- endif()

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- set(WIFI\_SSID "\${WIFI\_SSID}" CACHE INTERNAL "WiFi SSID for examples")

- set(WIFI\_PASSWORD "\${WIFI\_PASSWORD}" CACHE INTERNAL "WiFi password for  
examples")

+set(WIFI\_SSID \$ENV{WIFI\_SSID})

+set(WIFI\_PASSWORD \$ENV{WIFI\_PASSWORD})

+message("Using WIFI\_SSID from environment ('\${WIFI\_SSID}')

+message("Using WIFI\_PASSWORD from environment")

+message("Using WIFI\_PASSWORD from environment ('\${WIFI\_PASSWORD}')

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add\_subdirectory(wifi)

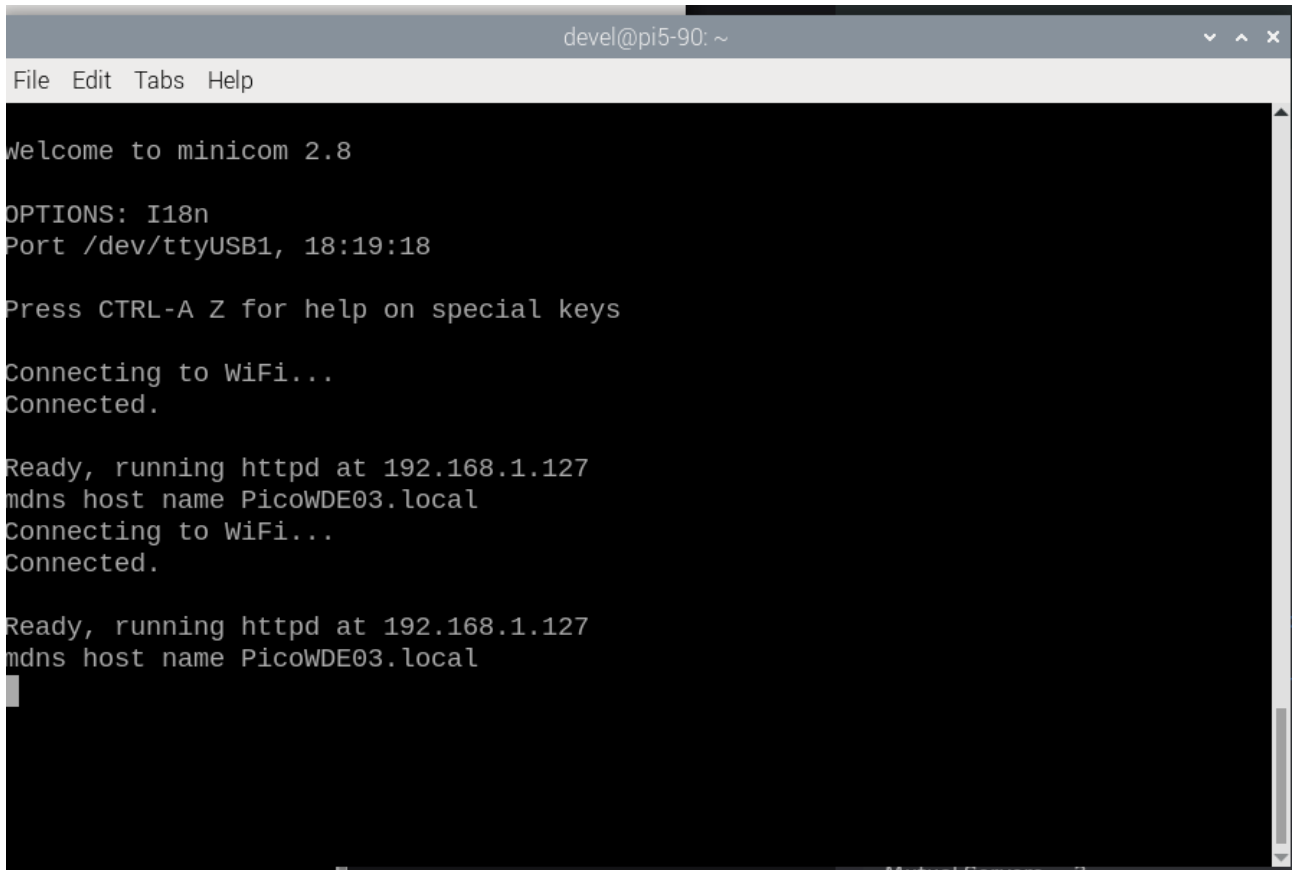
- if (NOT TARGET pico\_btstack\_base)

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-     message("Skipping Pico W Bluetooth examples as support is not available")
-     else()
-         add_subdirectory(bt)
-     endif()
- endif()
-endif()
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```
devel@pi5-90: ~
File Edit Tabs Help
Ready, running httpd at 192.168.1.127
mdns host name PicowDE03.local
Starting FreeRTOS SMP on both cores:
Connecting to Wi-Fi...
failed to connect.
Starting FreeRTOS SMP on both cores:
Connecting to Wi-Fi...
Connected.
blink_task starts

Ready, running iperf server at 192.168.1.128
Starting FreeRTOS SMP on both cores:
Connecting to Wi-Fi...
Connected.
blink_task starts

Ready, running iperf server at 192.168.1.128
Starting FreeRTOS SMP on both cores:
Connecting to Wi-Fi...
Connected.
blink_task starts

Ready, running iperf server at 192.168.1.128
```

xx  
built on pi5-80

pico-examples/build-2350/pico\_w/wifi/wifi\_scan/picow\_wifi\_scan\_poll.uf2

Welcome to minicom 2.8

OPTIONS: I18n  
Port /dev/ttyUSB1, 13:15:10

Press CTRL-A Z for help on special keys

Performing wifi scan

ssid: DIRECT-09-HP DeskJet 2600 series	rsssi: -81	chan: 1	mac: f8:b4:6a:5c:2d:0b	sec: 5
ssid: ATT3TV6WQs	rsssi: -79	chan: 1	mac: c8:52:61:4e:d2:50	sec: 5
ssid: DIRECT-09-HP DeskJet 2600 series	rsssi: -79	chan: 1	mac: f8:b4:6a:5c:2d:0b	sec: 5
ssid: ATT3TV6WQs	rsssi: -80	chan: 1	mac: c8:52:61:4e:d2:50	sec: 5
ssid: ATTXChY8YW	rsssi: -86	chan: 3	mac: ec:c3:02:28:d5:44	sec: 5
ssid: ATTXChY8YW	rsssi: -87	chan: 3	mac: ec:c3:02:28:d5:44	sec: 5
ssid: ATTXChY8YW	rsssi: -86	chan: 3	mac: ec:c3:02:28:d5:44	sec: 5
ssid: ATTtpHTfPi	rsssi: -19	chan: 4	mac: cc:ab:2c:c7:5e:54	sec: 5
ssid: ATTtpHTfPi	rsssi: -19	chan: 4	mac: cc:ab:2c:c7:5e:54	sec: 5
ssid: ATTtpHTfPi	rsssi: -21	chan: 4	mac: cc:ab:2c:c7:5e:54	sec: 5
ssid: ATT47CJH5z_EXT	rsssi: -61	chan: 6	mac: 3c:84:6a:46:98:f0	sec: 7
ssid: Pico_w-Net3	rsssi: -54	chan: 7	mac: dc:a6:32:09:35:24	sec: 5
ssid: Century Link	rsssi: -53	chan: 7	mac: dc:a6:32:27:e2:21	sec: 5
ssid: ATT47CJH5z_EXT	rsssi: -59	chan: 6	mac: 3c:84:6a:46:98:f0	sec: 7
ssid: Century Link	rsssi: -46	chan: 7	mac: dc:a6:32:27:e2:21	sec: 5
ssid: ATT47CJH5z_EXT	rsssi: -59	chan: 6	mac: 3c:84:6a:46:98:f0	sec: 7

ssid: Pico_w-Net3	rss: -47 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: ATTtpHTfPi	rss: -23 chan: 4 mac: cc:ab:2c:c7:5e:54 sec: 5
ssid: Pico_w-Net3	rss: -48 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: Century Link	rss: -46 chan: 7 mac: dc:a6:32:27:e2:21 sec: 5
ssid: Pico_w-Net3	rss: -51 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: ATT47CJH5z_EXT	rss: -59 chan: 6 mac: 3c:84:6a:46:98:f0 sec: 7
ssid: Century Link	rss: -44 chan: 7 mac: dc:a6:32:27:e2:21 sec: 5
ssid: Pico_w-Net3	rss: -50 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: Pico_w-Net3	rss: -51 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: Century Link	rss: -47 chan: 7 mac: dc:a6:32:27:e2:21 sec: 5
ssid: Pico_w-Net3	rss: -47 chan: 7 mac: dc:a6:32:09:35:24 sec: 5
ssid: Century Link	rss: -55 chan: 7 mac: dc:a6:32:27:e2:21 sec: 5
ssid: NETGEAR38	rss: -74 chan: 10 mac: bc:a5:11:1c:a6:85 sec: 5
ssid: Century Link	rss: -50 chan: 7 mac: dc:a6:32:27:e2:21 sec: 5