

Embedded Linux Primer

Day 4:

Generate a Custom Raspberry Pi 5 Yocto Image

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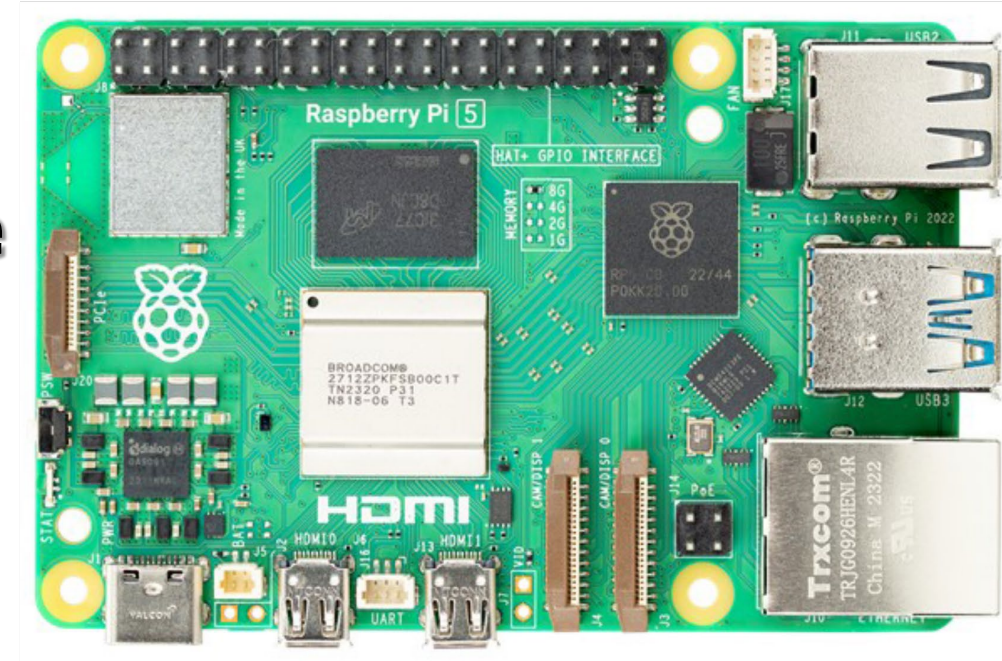
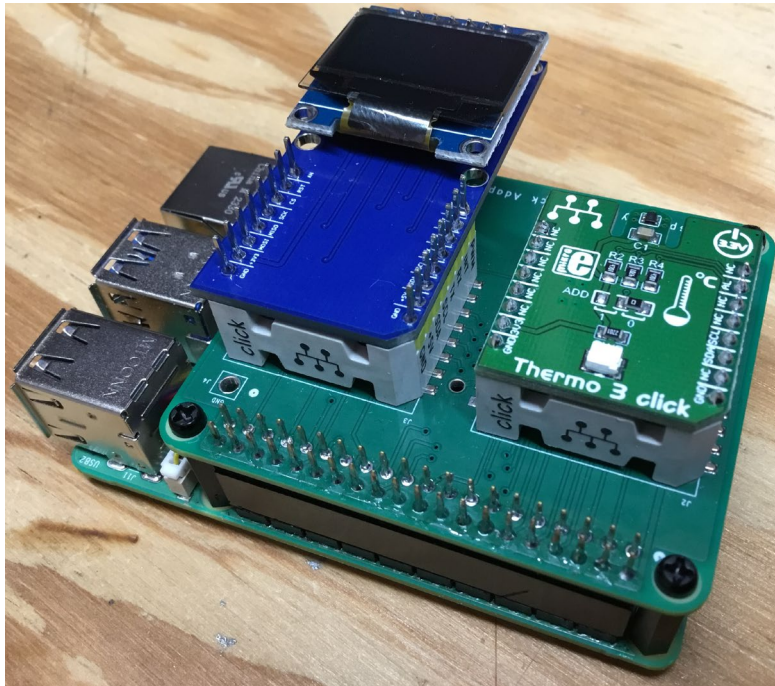


Fred Eady

Visit 'Lecturer Profile' in your console for more details.

AGENDA

- **Yocto RPI5 Image Configuration**
- **Cook Our Yocto RPI5 Image**
- **Load and Boot Our Yocto RPI5 Image**
- **Enable the RPI5 WiFi Radio**
- **Create a TMP102 Yocto Application**



yocto
PROJECT

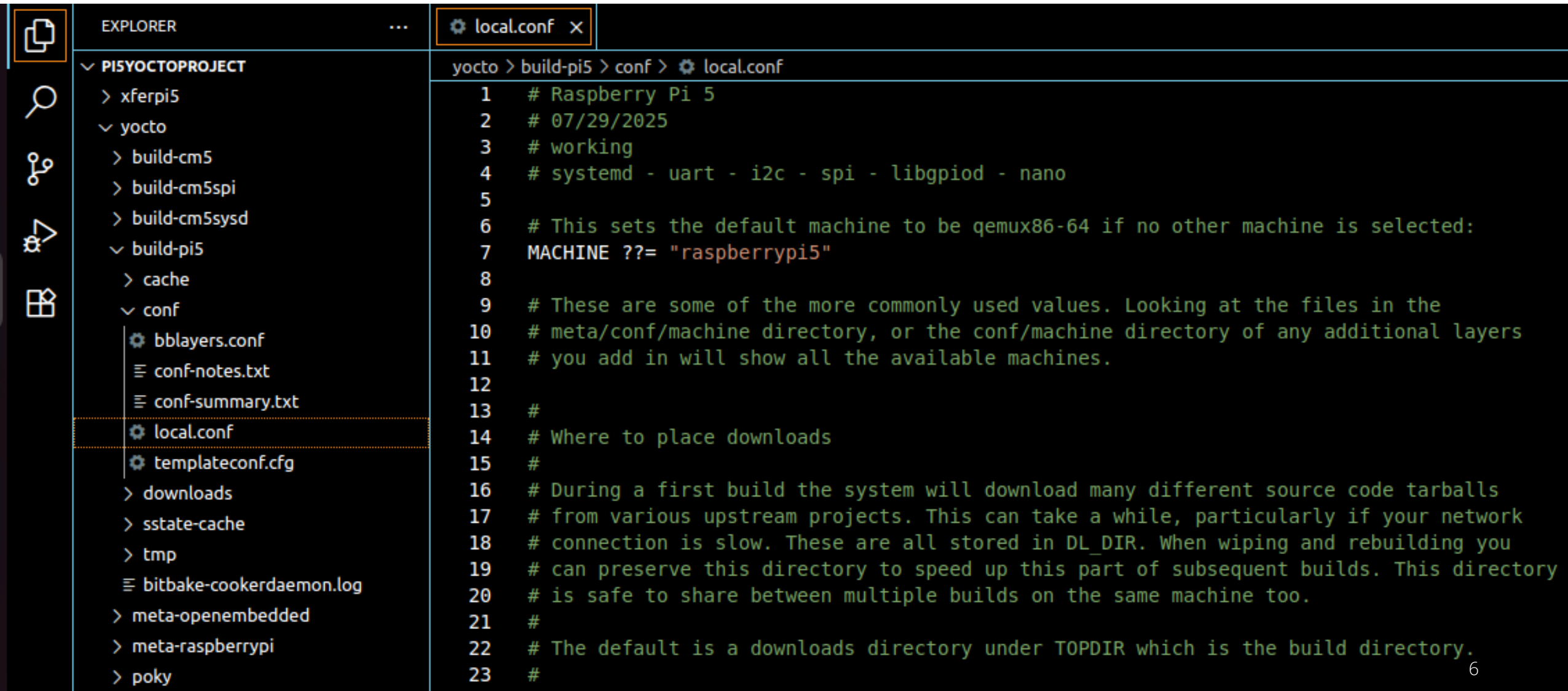
bblayers.conf

⚙️ bblayers.conf ×

yocto > build-pi5 > conf > ⚙️ bblayers.conf

```
1 # RASPBERRY PI 5
2 # 07/30/2025
3 # working
4 # base build with nano - ssh - libgpiod - systemd - spi - i2c
5 # optional /home/fred/pi5yoctoProject/yocto/meta-openembedded/meta-networking \
6 #
7 #
8 # POKY_BBLAYERS_CONF_VERSION is increased each time build/conf/bblayers.conf
9 # changes incompatibly
10 POKY_BBLAYERS_CONF_VERSION = "2"
11
12 BBPATH = "${TOPDIR}"
13 BBFILES ?= ""
14
15 BBLAYERS ?= " \
16 /home/fred/pi5yoctoProject/yocto/poky/meta \
17 /home/fred/pi5yoctoProject/yocto/poky/meta-poky \
18 /home/fred/pi5yoctoProject/yocto/poky/meta-yocto-bsp \
19 /home/fred/pi5yoctoProject/yocto/meta-openembedded/meta-oe \
20 /home/fred/pi5yoctoProject/yocto/meta-openembedded/meta-python \
21 /home/fred/pi5yoctoProject/yocto/meta-raspberrypi \
22 "
```

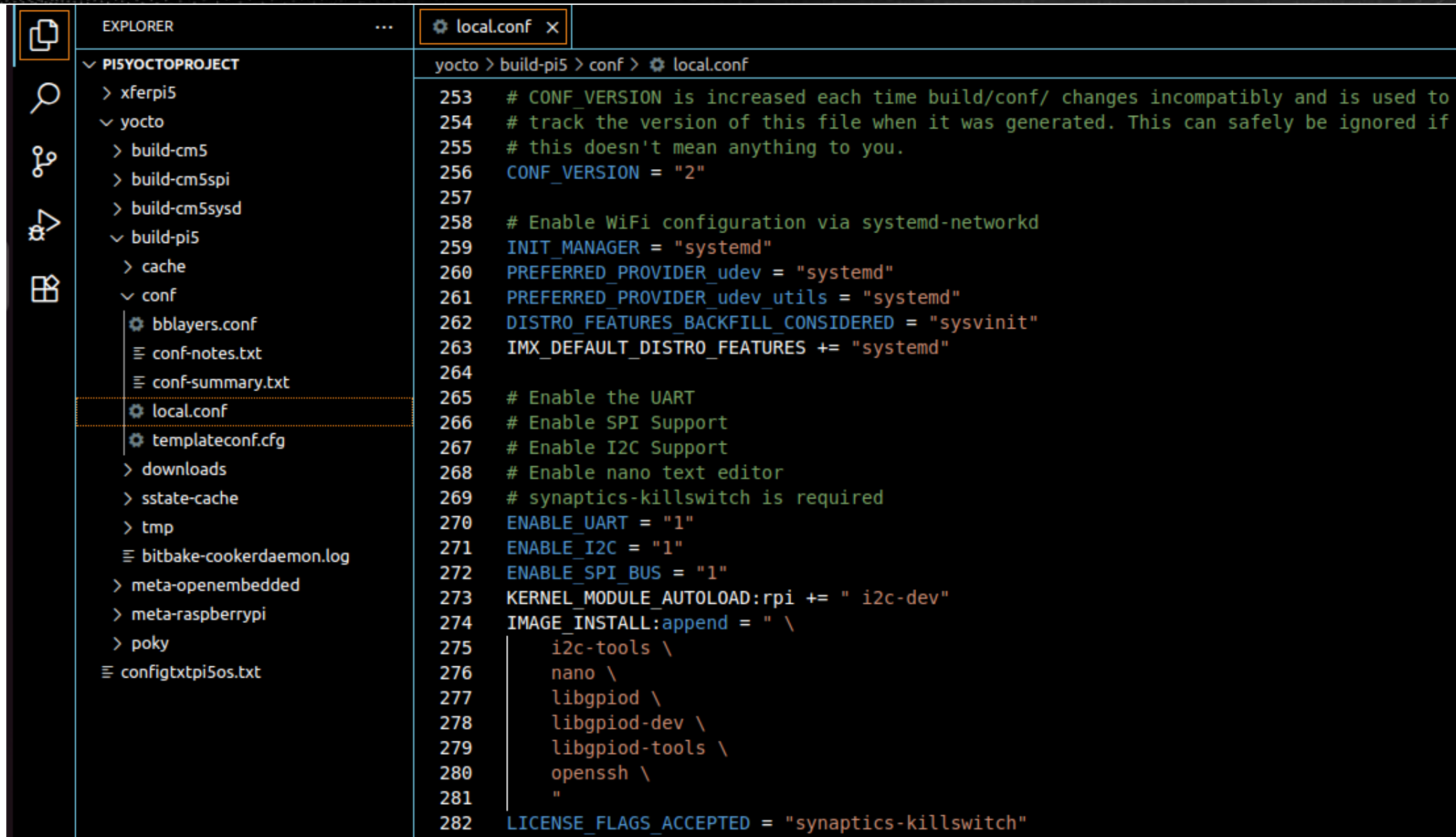
local.conf



The image shows a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'xferpi5', 'yocto', 'build-cm5', 'build-cm5spi', 'build-cm5sysd', 'build-pi5', 'cache', 'conf', 'downloads', 'sstate-cache', 'tmp', 'meta-openembedded', 'meta-raspberrypi', and 'poky'. The 'conf' folder is expanded, showing files like 'bblayers.conf', 'conf-notes.txt', 'conf-summary.txt', 'local.conf', and 'templateconf.cfg'. The 'local.conf' file is selected and its contents are displayed in the code editor. The code editor shows the following content:

```
yocto > build-pi5 > conf > local.conf
1 # Raspberry Pi 5
2 # 07/29/2025
3 # working
4 # systemd - uart - i2c - spi - libgpiod - nano
5
6 # This sets the default machine to be qemux86-64 if no other machine is selected:
7 MACHINE ??= "raspberrypi5"
8
9 # These are some of the more commonly used values. Looking at the files in the
10 # meta/conf/machine directory, or the conf/machine directory of any additional layers
11 # you add in will show all the available machines.
12
13 #
14 # Where to place downloads
15 #
16 # During a first build the system will download many different source code tarballs
17 # from various upstream projects. This can take a while, particularly if your network
18 # connection is slow. These are all stored in DL_DIR. When wiping and rebuilding you
19 # can preserve this directory to speed up this part of subsequent builds. This directory
20 # is safe to share between multiple builds on the same machine too.
21 #
22 # The default is a downloads directory under TOPDIR which is the build directory.
23 #
```

local.conf



The image shows a file explorer on the left and a code editor on the right. The file explorer shows a directory structure for a Yocto project, with 'local.conf' selected. The code editor displays the contents of 'local.conf', which includes configuration for the system manager, preferred providers, and hardware features like UART, SPI, and I2C.

```
yocto > build-pi5 > conf > local.conf
253 # CONF_VERSION is increased each time build/conf/ changes incompatibly and is used to
254 # track the version of this file when it was generated. This can safely be ignored if
255 # this doesn't mean anything to you.
256 CONF_VERSION = "2"
257
258 # Enable WiFi configuration via systemd-networkd
259 INIT_MANAGER = "systemd"
260 PREFERRED_PROVIDER_udev = "systemd"
261 PREFERRED_PROVIDER_udev_utils = "systemd"
262 DISTRO_FEATURES_BACKFILL_CONSIDERED = "sysvinit"
263 IMX_DEFAULT_DISTRO_FEATURES += "systemd"
264
265 # Enable the UART
266 # Enable SPI Support
267 # Enable I2C Support
268 # Enable nano text editor
269 # synaptics-killswitch is required
270 ENABLE_UART = "1"
271 ENABLE_I2C = "1"
272 ENABLE_SPI_BUS = "1"
273 KERNEL_MODULE_AUTOLOAD:rpi += " i2c-dev"
274 IMAGE_INSTALL:append = " \
275     i2c-tools \
276     nano \
277     libgpod \
278     libgpod-dev \
279     libgpod-tools \
280     openssh \
281     "
282 LICENSE_FLAGS_ACCEPTED = "synaptics-killswitch"
```

Invoke BitBake

```
fred@pi5-yocto: ~/pi5yoctoProject/yocto/build-pi5
File Edit View Search Terminal Help
Removing 89 stale sstate objects for arch allarch: 100% |#####| Time: 0:00:00
Removing 246 stale sstate objects for arch raspberrypi5: 100% |##| Time: 0:00:01
Removing 13 stale sstate objects for arch x86_64: 100% |#####| Time: 0:00:00
NOTE: Executing Tasks
Setscene tasks: 2639 of 2639
Currently 16 running tasks (4439 of 5468) 81% |#####|
0: linux-raspberrypi-1_6.6.63+git-r0 do_compile - 11m20s (pid 261080)
1: openssl-3.2.4-r0 do_compile - 9m0s (pid 320134)
2: glibc-locale-2.39+git-r0 do_package - 9m0s (pid 320866) 95% |#####|
3: icu-74-2-r0 do_compile - 4m45s (pid 676519)
4: perl-5.38.4-r0 do_compile - 2m59s (pid 829828)
5: util-linux-2.39.3-r0 do_package - 1m43s (pid 923680)
6: busybox-1.36.1-r0 do_compile - 1m7s (pid 965810)
7: glib-2.0-1_2.78.6-r0 do_compile - 1m3s (pid 972244) 12% |##|
8: e2fsprogs-1.47.0-r0 do_compile - 1m2s (pid 973091)
9: iptables-1.8.10-r0 do_package - 46s (pid 992423)
10: gnutls-3.8.4-r0 do_compile - 46s (pid 992994)
11: gcc-13.3.0-r0 do_configure - 4s (pid 1036417)
12: kbd-2.6.4-r0 do_configure - 4s (pid 1036432)
13: grep-3.11-r0 do_configure - 4s (pid 1036440)
14: diffutils-3.10-r0 do_package - 3s (pid 1037352)
15: findutils-4.9.0-r0 do_package - 2s (pid 1038227)
```

Load the microSD Card With Our New Base Image

```
fred@pi5-yocto: ~/pi5yoctoProject/yocto/build-pi5/tmp/deploy/images/raspberrypi5
File Edit View Search Terminal Help
meta-poky
meta-yocto-bsp      = "scarthgap:ac257900c33754957b2696529682029d997a8f28"
meta-oe
meta-python        = "scarthgap:491671faee11ea131feab5a3a451d1a01deb2ab1"
meta-raspberrypi   = "scarthgap:bce7b3acd2e0d9d127fcb57eae4a512bd7e7924a"

Sstate summary: Wanted 1763 Local 0 Mirrors 0 Missed 1763 Current 876 (0% match, 33% complete)
Removing 1334 stale sstate objects for arch cortexa76: 100% |####| Time: 0:00:02
Removing 89 stale sstate objects for arch allarch: 100% |#####| Time: 0:00:00
Removing 246 stale sstate objects for arch raspberrypi5: 100% |##| Time: 0:00:01
Removing 13 stale sstate objects for arch x86_64: 100% |#####| Time: 0:00:00
NOTE: Executing Tasks
NOTE: Tasks Summary: Attempted 5468 tasks of which 2072 didn't need to be rerun and all succeeded.
fred@pi5-yocto:~/pi5yoctoProject/yocto/build-pi5$ cd tmp/deploy/images/raspberrypi5/
fred@pi5-yocto:~/pi5yoctoProject/yocto/build-pi5/tmp/deploy/images/raspberrypi5$ sudo bmaptool copy core-image-base-raspberrypi5.rootfs.wic.bz2 /dev/sdb
[sudo] password for fred:
bmaptool: info: discovered bmap file 'core-image-base-raspberrypi5.rootfs.wic.bmap'
bmaptool: info: block map format version 2.0
bmaptool: info: 242483 blocks of size 4096 (947.2 MiB), mapped 130166 blocks (508.5 MiB or 53.7%)
bmaptool: info: copying image 'core-image-base-raspberrypi5.rootfs.wic.bz2' to block device '/dev/sdb' using bmap file 'core-image-base-raspberrypi5.rootfs.wic.bmap'
bmaptool: info: 100% copied
bmaptool: info: synchronizing '/dev/sdb'
fred@pi5-yocto:~/pi5yoctoProject/yocto/build-pi5/tmp/deploy/images/raspberrypi5$
```

microSD Card root Partition (rootfs)

The screenshot shows a file manager window titled "root" with a sidebar on the left and a main pane on the right. The sidebar contains a list of locations: Recent, Starred, Home, Documents, Downloads, Music, Pictures, Videos, Trash, boot, root, and Other Locations. The main pane displays a table of files and folders in the root directory.

Name	Size	Modified
bin	777 items	9 Mar 2018
boot	2 items	9 Mar 2018
dev	0 items	9 Mar 2018
etc	80 items	29 Jul
home	0 items	9 Mar 2018
lib	559 items	9 Mar 2018
media	0 items	9 Mar 2018
mnt	0 items	9 Mar 2018
proc	0 items	9 Mar 2018
root	—	29 Jul

microSD Card boot Partition (bootfs)

The screenshot shows a file manager window titled "boot" displaying the contents of the boot partition. The left sidebar shows navigation options: Recent, Starred, Home, Documents, Downloads, Music, Pictures, Videos, Trash, boot, root, and Other Locations. The main pane shows a list of files with columns for Name, Size, and Modified. Two red arrows point to the files `bcm2712-rpi-5-b.dtb` and `config.txt`.

Name	Size	Modified
<code>bcm2712-rpi-5-b.dtb</code>	81.2 kB	5 Apr 2011
<code>bcm2712-rpi-cm5-cm4io.dtb</code>	81.6 kB	5 Apr 2011
<code>bcm2712-rpi-cm5-cm5io.dtb</code>	81.6 kB	5 Apr 2011
<code>bcm2712-rpi-cm5l-cm4io.dtb</code>	81.6 kB	5 Apr 2011
<code>bcm2712-rpi-cm5l-cm5io.dtb</code>	81.7 kB	5 Apr 2011
<code>bootcode.bin</code>	52.5 kB	5 Apr 2011
<code>cmdline.txt</code>	104 bytes	5 Apr 2011
<code>config.txt</code>	2.6 kB	5 Apr 2011
<code>fixup.dat</code>	7.3 kB	5 Apr 2011
<code>fixup4.dat</code>	5.4 kB	5 Apr 2011

microSD Card boot Partition (bootfs) – config.txt

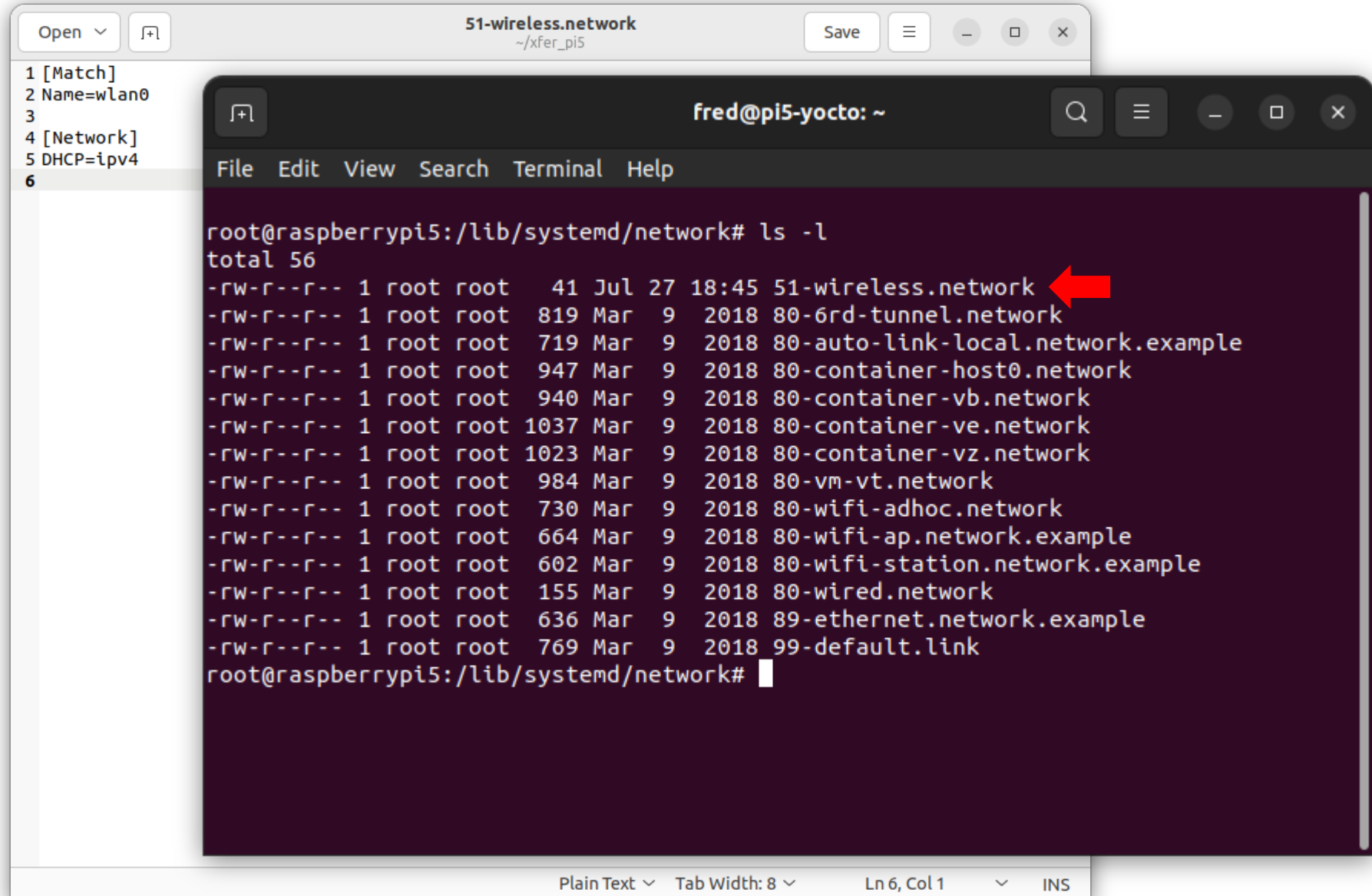
```
Open [F1] config.txt boot/media/fred/boot Save [Menu] - [Close] [X]
217
218 #dtparam=i2c_vc_baudrate=100000
219
220 #dtparam=i2s=off
221
222 #dtparam=spi=off
223
224 #dtparam=random=off
225
226 #dtparam=uart0=on
227
228 #dtparam=watchdog=off
229
230 #dtparam=act_led_trigger=mmc
231
232 #dtparam=act_led_activelow=off
233
234 #dtparam=act_led_gpio=47
235
236 #dtparam=pwr_led_trigger=mmc
237
238 #dtparam=pwr_led_activelow=off
239
240 #dtparam=pwr_led_gpio=35
241
242
243 #dtoverlay=act-led,activelow=off
244 # Enable SPI bus
245 dtparam=spi=on
246 # Enable I2C
247 dtparam=i2c1=on
248 dtparam=i2c_arm=on
249 # Enable UART
250 enable_uart=1
251 # Enable VC4 Graphics
252 dtoverlay=vc4-kms-v3d
253
```

```
local.conf x
yocto > build-pi5 > conf > local.conf
266 # Enable SPI Support
267 # Enable I2C Support
268 # Enable nano text editor
269 # synaptics-killswitch is required
270 ENABLE_UART = "1"
271 ENABLE_I2C = "1"
272 ENABLE_SPI_BUS = "1"
273 KERNEL_MODULE_AUTOLOAD:rpi += " i2c-dev"
274 IMAGE_INSTALL:append = " \
275     i2c-tools \
276     nano \
277     libgpiod \
278     libgpiod-dev \
279     libgpiod-tools \
280     openssh \
281     "
```

Plain Text Tab Width: 8 Ln 1, Col 10 INS

The logo for SanDisk Ultra, featuring the brand name in a white serif font on a dark red background.The text "64 GB" in a large, white, sans-serif font, positioned on the left side of the card's grey section.The logo for microSDXC I/O, featuring the text "microSDXC I/O" in a white, stylized font on the right side of the card's grey section.The text "A1" in a large, white, sans-serif font, positioned on the left side of the card's grey section, next to a circular logo.

Create and Place 51-wireless.network



```
Open 51-wireless.network Save
~/xfer_pi5

1 [Match]
2 Name=wlan0
3
4 [Network]
5 DHCP=ipv4
6

fred@pi5-yocto: ~
File Edit View Search Terminal Help

root@raspberrypi5:/lib/systemd/network# ls -l
total 56
-rw-r--r-- 1 root root  41 Jul 27 18:45 51-wireless.network
-rw-r--r-- 1 root root 819 Mar  9 2018 80-6rd-tunnel.network
-rw-r--r-- 1 root root 719 Mar  9 2018 80-auto-link-local.network.example
-rw-r--r-- 1 root root 947 Mar  9 2018 80-container-host0.network
-rw-r--r-- 1 root root 940 Mar  9 2018 80-container-vb.network
-rw-r--r-- 1 root root 1037 Mar  9 2018 80-container-ve.network
-rw-r--r-- 1 root root 1023 Mar  9 2018 80-container-vz.network
-rw-r--r-- 1 root root  984 Mar  9 2018 80-vm-vt.network
-rw-r--r-- 1 root root  730 Mar  9 2018 80-wifi-adhoc.network
-rw-r--r-- 1 root root  664 Mar  9 2018 80-wifi-ap.network.example
-rw-r--r-- 1 root root  602 Mar  9 2018 80-wifi-station.network.example
-rw-r--r-- 1 root root  155 Mar  9 2018 80-wired.network
-rw-r--r-- 1 root root  636 Mar  9 2018 89-ethernet.network.example
-rw-r--r-- 1 root root  769 Mar  9 2018 99-default.link
root@raspberrypi5:/lib/systemd/network#
```

Create and Place wpa_supplicant-wlan0.conf

```
Open ▾ [⌘] *wpa_supplicant-wlan0.conf ~/xfer_pi5 Save Open ▾ [⌘] *wpa_supplicant-wlan0.conf ~/xfer_pi5 Save [≡] [−] [□] [×]
```

```
1 ctrl_interface=/var/run/wpa_supplicant
2 eapol_version=1
3 ap_scan=1
4 fast_reauth=1
5
6
```

```
1 ctrl_interface=/var/run/wpa_supplicant
2 eapol_version=1
3 ap_scan=1
4 fast_reauth=1
5
6 network={
7     ssid="SSID_OF_NETWORK "
8     #psk="PASSWORD_OF_NETWORK"
9     psk=9c792aa9d02f7054501f156a58f9c73478f81f82b972a73da347fb19971bf045
10 }
11
```

wpa_passphrase SSID_OF_NETWORK PASSWORD_OF_NETWORK >> /etc/wpa_supplicant/wpa_supplicant-wlan0.conf

```
[⌘] fred@pi5-yocto: ~ [🔍] [≡]
```

```
File Edit View Search Terminal Help
```

```
root@raspberrypi5:~# cd /etc/wpa_supplicant
root@raspberrypi5:/etc/wpa_supplicant# ls -l
total 4
-rw-r--r-- 1 root root 202 Jul 29 22:40 wpa_supplicant-wlan0.conf
root@raspberrypi5:/etc/wpa_supplicant#
```

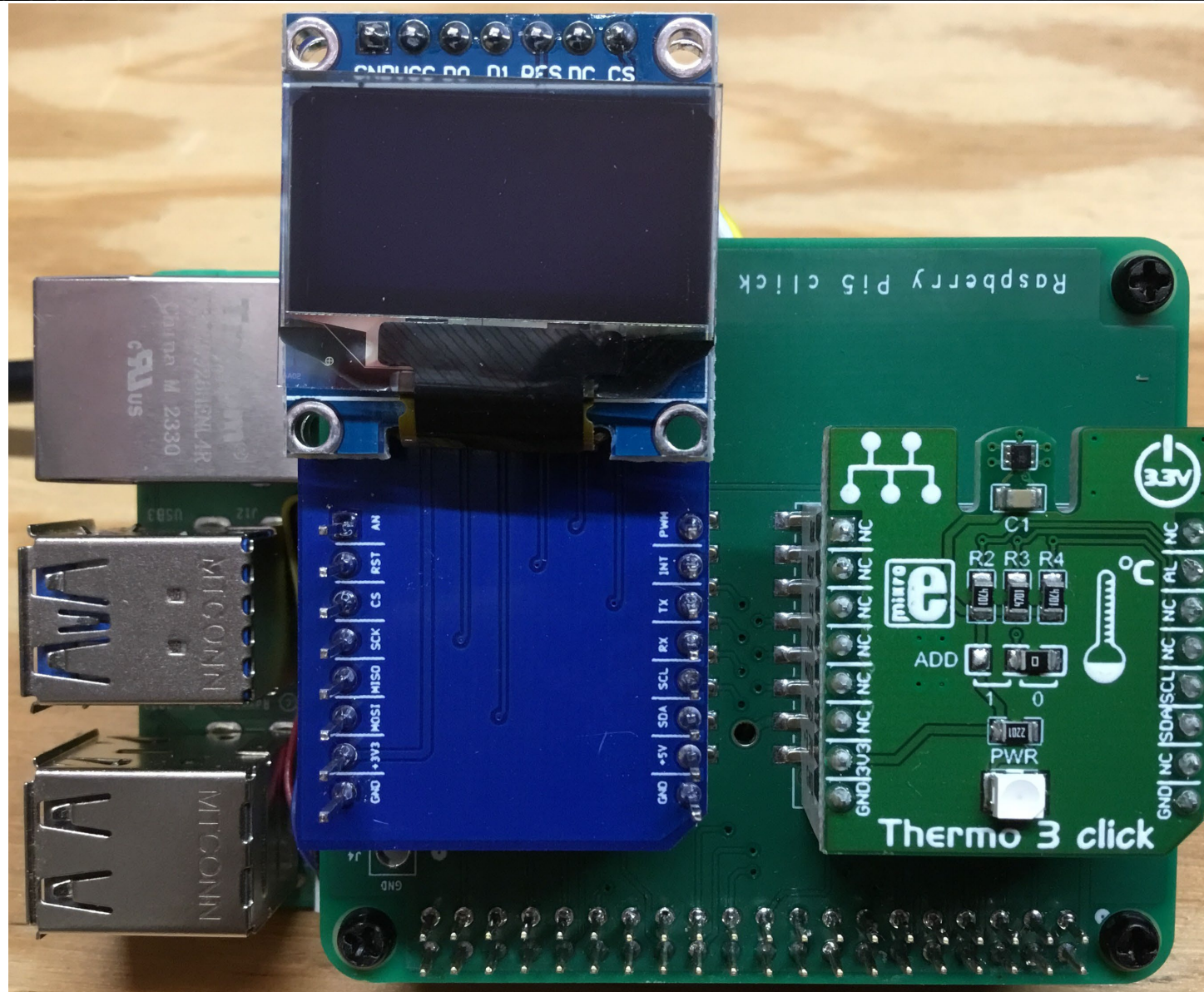
Enable WiFi

```
fred@pi5-yocto: ~  
File Edit View Search Terminal Help  
root@raspberrypi5:~# ifconfig  
eth0    Link encap:Ethernet  HWaddr D8:3A:DD:99:B4:16  
        inet addr:192.168.1.186  Bcast:192.168.1.255  Mask:255.255.255.0  
        inet6 addr: 2600:6c5a:c7f:f2a6:da3a:ddff:fe99:b416/64 Scope:Global  
        inet6 addr: fe80::da3a:ddff:fe99:b416/64 Scope:Link  
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
        RX packets:215218 errors:0 dropped:32 overruns:0 frame:0  
        TX packets:3929 errors:0 dropped:0 overruns:0 carrier:0  
        collisions:0 txqueuelen:1000  
        RX bytes:64545188 (61.5 MiB)  TX bytes:396736 (387.4 KiB)  
        Interrupt:106  
  
lo      Link encap:Local Loopback  
        inet addr:127.0.0.1  Mask:255.0.0.0  
        inet6 addr: ::1/128 Scope:Host  
        UP LOOPBACK RUNNING  MTU:65536  Metric:1  
        RX packets:30 errors:0 dropped:0 overruns:0 frame:0  
        TX packets:30 errors:0 dropped:0 overruns:0 carrier:0  
        collisions:0 txqueuelen:1000  
        RX bytes:4560 (4.4 KiB)  TX bytes:4560 (4.4 KiB)  
  
wlan0   Link encap:Ethernet  HWaddr D8:3A:DD:99:B4:17  
        inet addr:192.168.1.187  Bcast:192.168.1.255  Mask:255.255.255.0  
        inet6 addr: fe80::da3a:ddff:fe99:b417/64 Scope:Link  
        inet6 addr: 2600:6c5a:c7f:f2a6:da3a:ddff:fe99:b417/64 Scope:Global  
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
        RX packets:142854 errors:0 dropped:10 overruns:0 frame:0  
        TX packets:3376 errors:0 dropped:0 overruns:0 carrier:0  
        collisions:0 txqueuelen:1000  
        RX bytes:55242637 (52.6 MiB)  TX bytes:327308 (319.6 KiB)
```

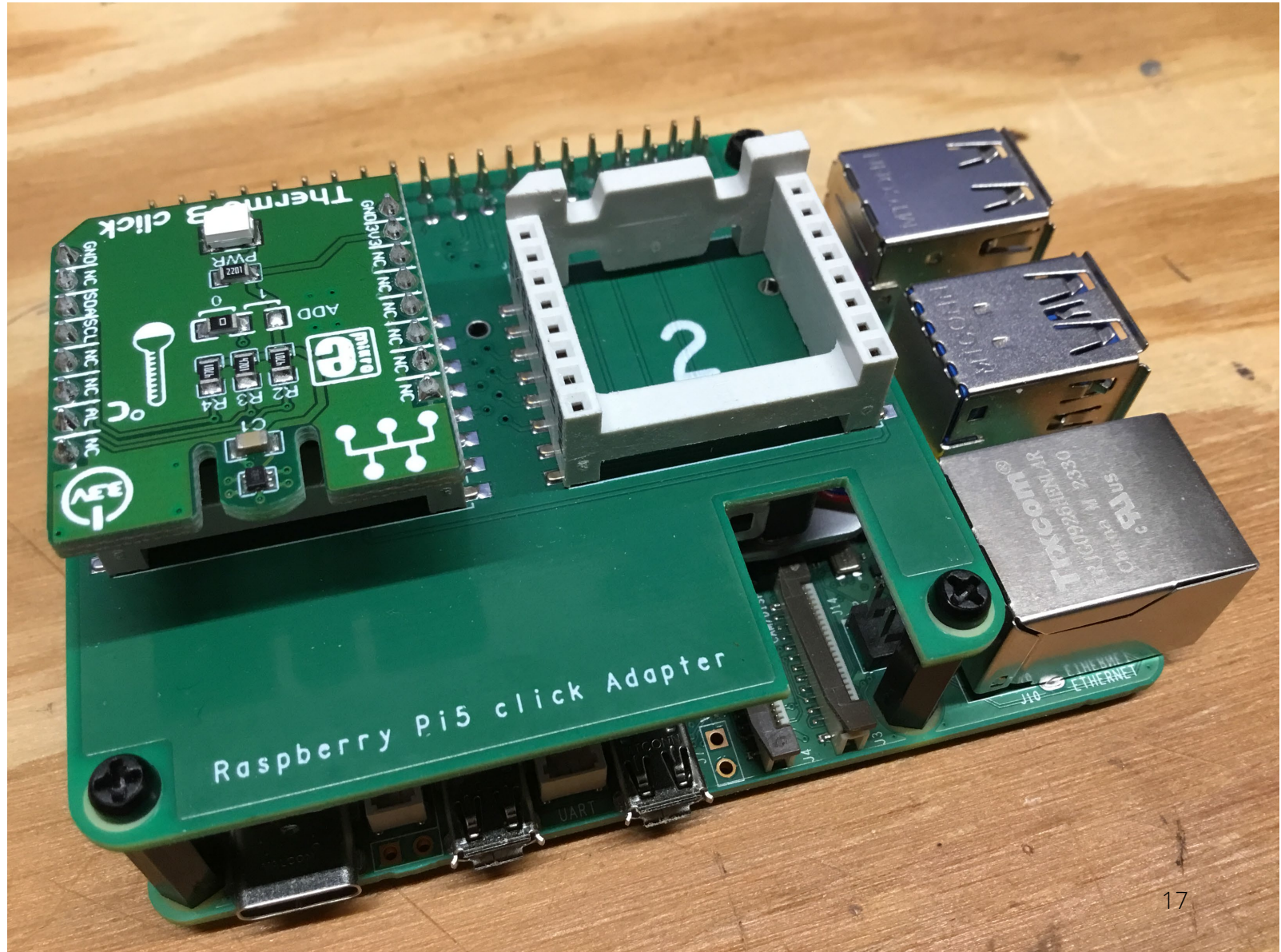
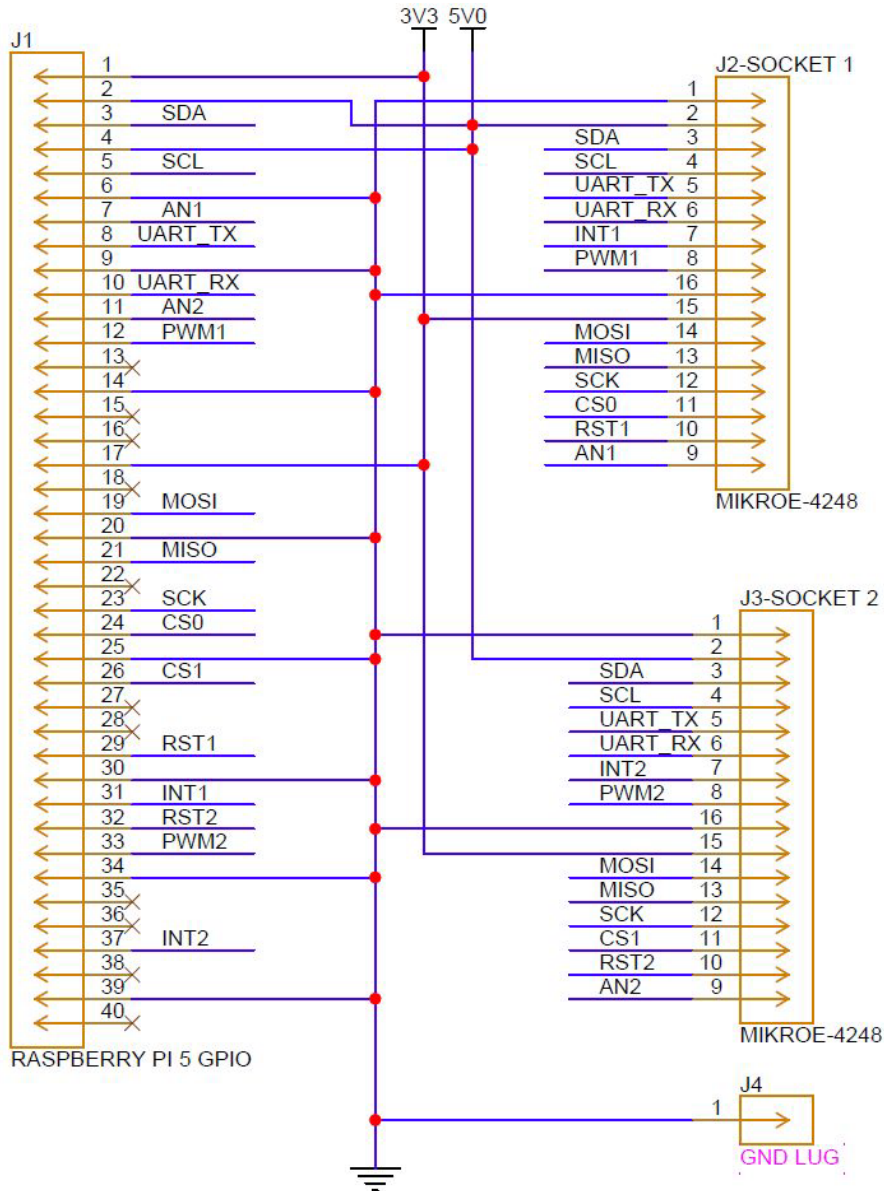
To enable WiFi , execute the following 3 commands from the Raspberry Pi 5 Linux console :

```
systemctl enable wpa_supplicant@wlan0.service  
systemctl restart systemd-networkd.service  
systemctl restart wpa_supplicant@wlan0.service
```

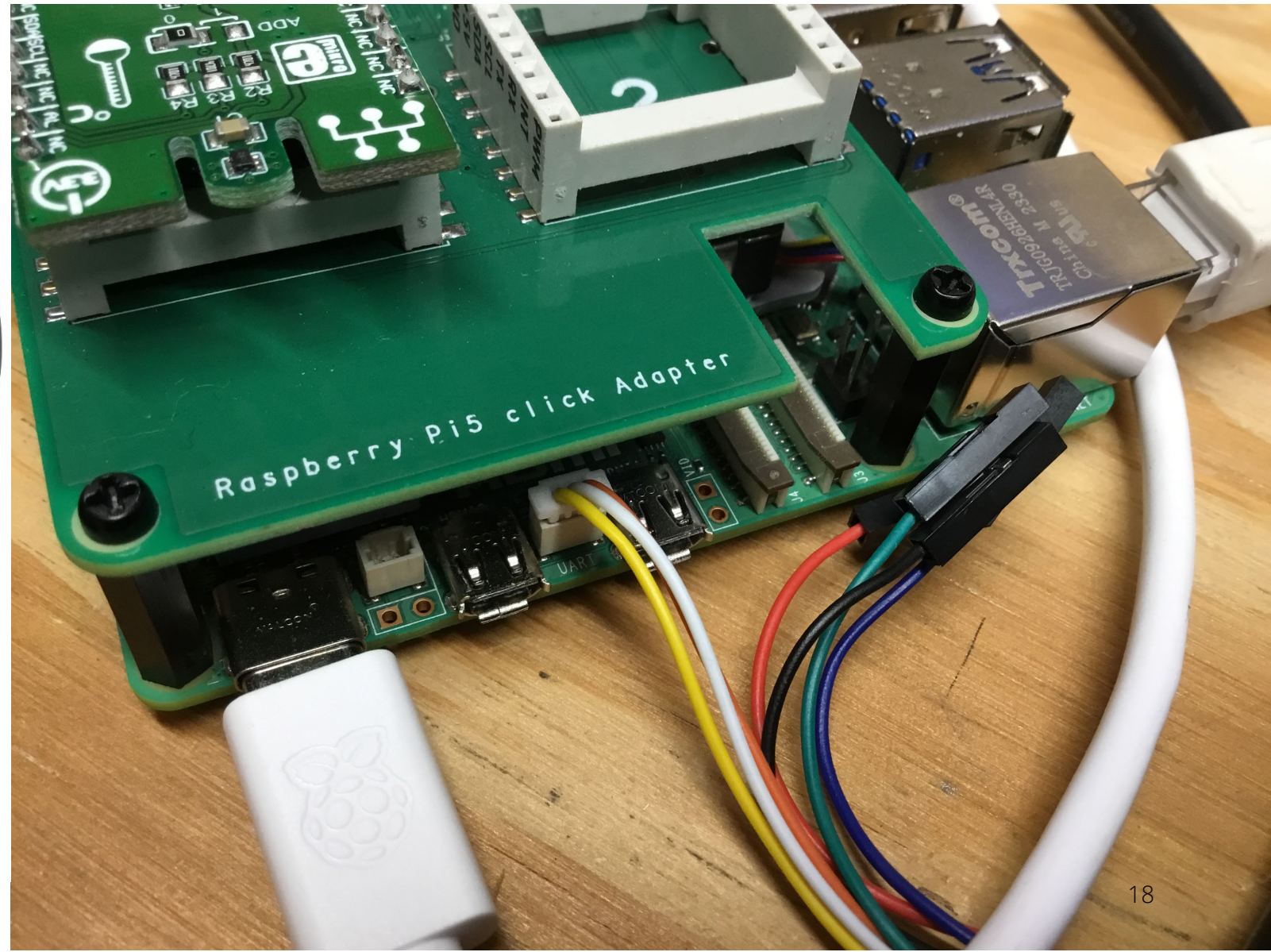
Assemble the Raspberry Pi 5 Hardware



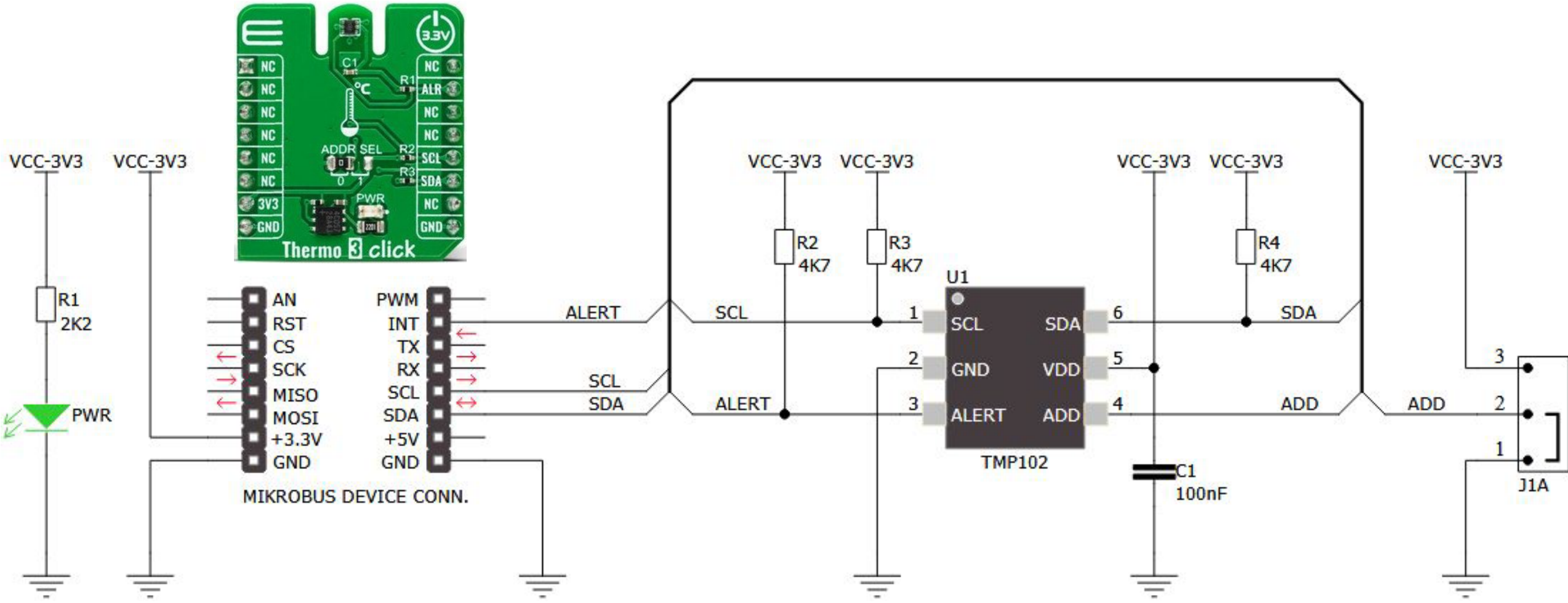
Assemble the Raspberry Pi 5 Hardware



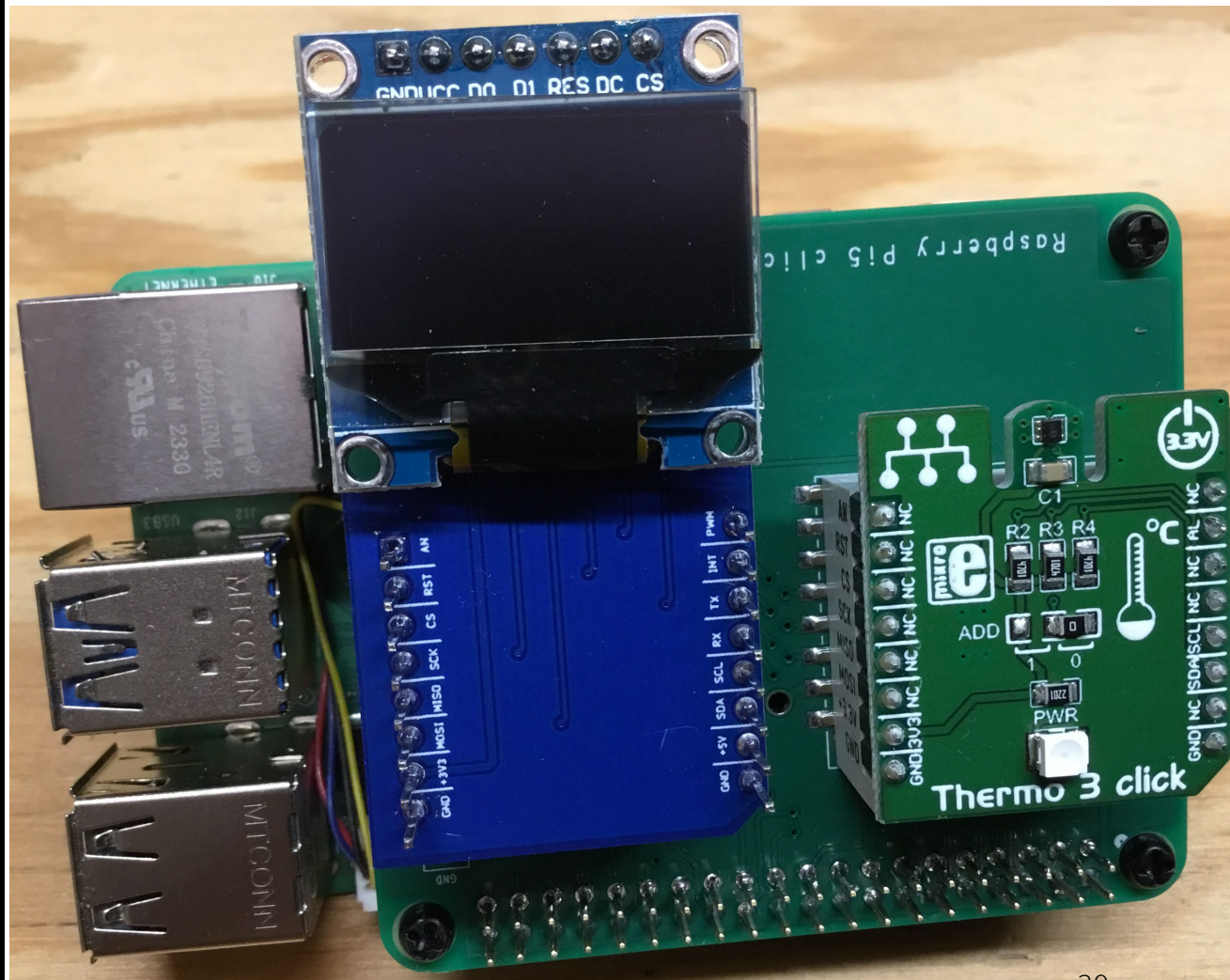
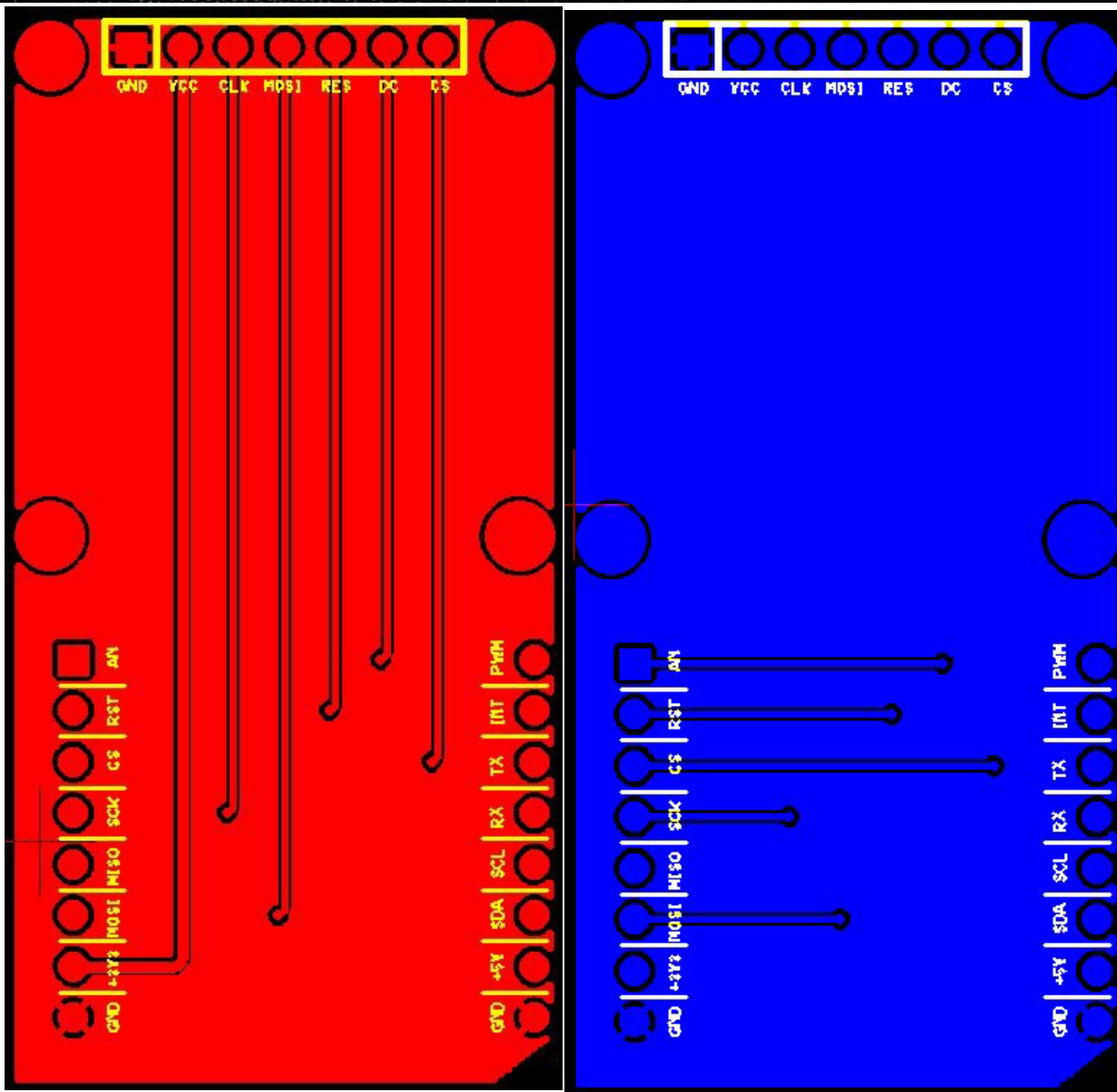
Assemble the Raspberry Pi 5 Hardware



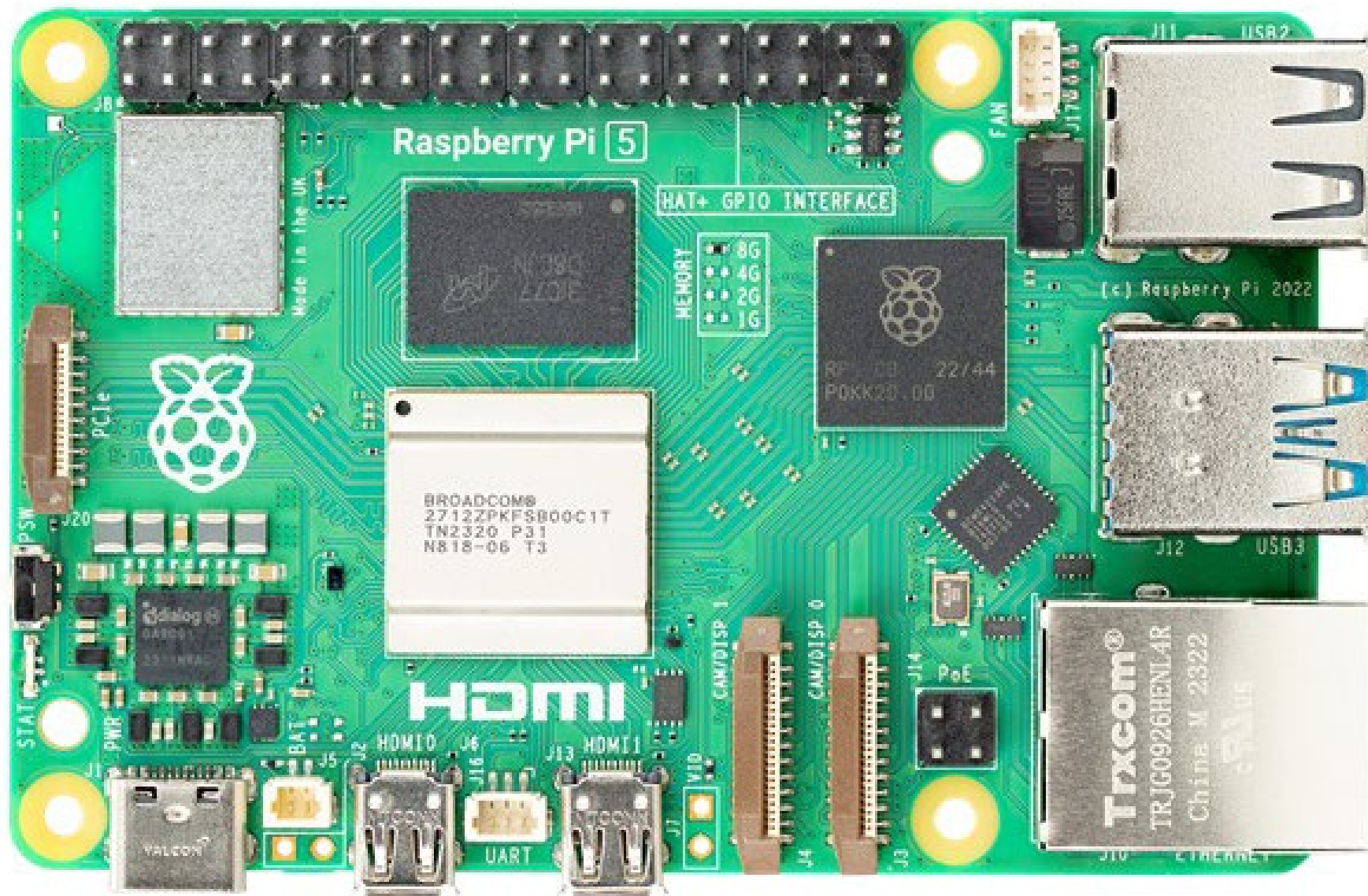
Assemble the Raspberry Pi 5 Hardware



Assemble the Raspberry Pi 5 Hardware



Eclipse Yocto Application Development



Create and Compile the Application Code

Project Explorer ×

- gpiodproject
- lm75YoctoProject
- RemoteSystemsTempFiles
- setupproject
- ssd1306project
- ssd1306TemperatureProject
 - Binaries
 - Includes
 - src
 - ssd1306Fonts5x7.h
 - ssd1306Fonts8x8.h
 - ssd1306TemperatureProject.c
 - ssd1306TemperatureProject.h
 - Debug
 - ssd1306TemperatureProjectLM75
 - tmp102project
 - tmp102YoctoProject

Remote Systems ×

- Local
 - Local Files
 - Local Shells
- pi5_186
 - Sftp Files
 - My Home
 - pi5app
 - Root
 - Shell Processes
 - Ssh Shells

ssd1306TemperatureProject.c × ssd1306TemperatureProject.h

Try the new C/C++

```

1 //*****
2 /** RASPBERRY PI 5 SSD1306 COMBINED TEMPERATURE DRIVER Thermo 3/TMP102
3 /** VERSION 1.00 A YOCTO
4 /** COMPILED USING aarch64-linux-gnu
5 /** WRITTEN BY FRED EADY
6 /** LAST UPDATED 07/30/2025
7 /** CHANGES/ADDITIONS
8 /*******
9
10 //*****
11 /** INCLUDES
12 /*******
13 #include "ssd1306TemperatureProject.h"
14
15 //*****
16 /** TMP102 VARIABLES
17 /*******
18 int file;           // I2C file descriptor
19 char txBuf[5];     // I2C transmit buffer
20 char rxBuf[2];    // I2C receive buffer
21 int tempBuf;      // TMP102 temperature buffer
22 float tempC;     // temperature in C
23 char registerName[18]; // holding array for TMP102 register name
24
25 //*****
26 /** SSD1306 VARIABLES
27 /*******
28 char* curFontPtr; // Current font.
29 uint8_t fontOffset = 2; // Font bytes for meta data.
30 uint8_t fontWidth; // Font width.
31 uint8_t col; // Cursor column.
32 uint8_t row; // Cursor row (RAM).
33 char spiTxBuf[18];
34 int fd;
35 unsigned char tx[8];

```

Problems × Tasks × Console × Properties × Call Graph

No consoles to display at this time.

Enable the I2C Portal

```
/**
// *****
// Open /dev/i2c-1 for Read/Write
// *****
if((file = open(filename, O_RDWR)) < 0)
{
    printf("ERROR: Failed to open %s.\n",filename);
    exit(1);
}
printf("INFO: %s opened for Read/Write.\n",filename);

/**
// *****
// Change slave address to match TMP102 (0x48)
// *****
if(ioctl(file, I2C_SLAVE, tmp102_addr) < 0)
{
    printf("ERROR: Failed to acquire bus access or communicate with the device.\n");
    exit(1);
}
printf("INFO: Slave address changed to 0x%02x.\n",tmp102_addr);
```

Enable the SPI Portal

```
/**
 * *****
 * // Open /dev/spidev0.1 for Read/Write
 * *****
 */
fd = open("/dev/spidev0.1", O_RDWR);
if (fd < 0)
{
    printf("ERROR: /dev/spidev0.1 didn't open");
    exit(1);
}
printf("INFO: (file descriptor) fd = %d\n", fd);

line_request = request_output_lines(chip_path, line_offsets, line_values,
| | | | | NUM_LINES,
| | | | | "SSD1306-DC-RST");
if (!line_request) {
    printf("ERROR: Failed to request line\n");
    return EXIT_FAILURE;
}
```

Main Application Flow

```
//*****  
// INITIALIZE THE SSD1306 DISPLAY  
//*****  
initSSD1306();  
  
//*****  
// Read the temperature  
//*****  
if(read(file,rxBuf,2) != 2)  
{  
    printf("Could not read from I2C device.\n");  
    exit(1);  
}  
printf("INFO: 2 bytes were read-> rxBuf[0] 0x%02X -- rxBuf[1] 0x%02X\n",rxBuf[0],rxBuf[1]);  
  
//*****  
// Convert temperature bytes to 16-bit value  
//*****  
tempBuf = (rxBuf[0] << 4) | (rxBuf[1] >> 4);  
printf("INFO: 16-bit value = 0x%04X\n",tempBuf);
```

Main Application Flow

```
/**
 * Compute and print the temperature
 */
if(tempBuf & (1 << 11))
{
    tempBuf |= 0xF800;
}

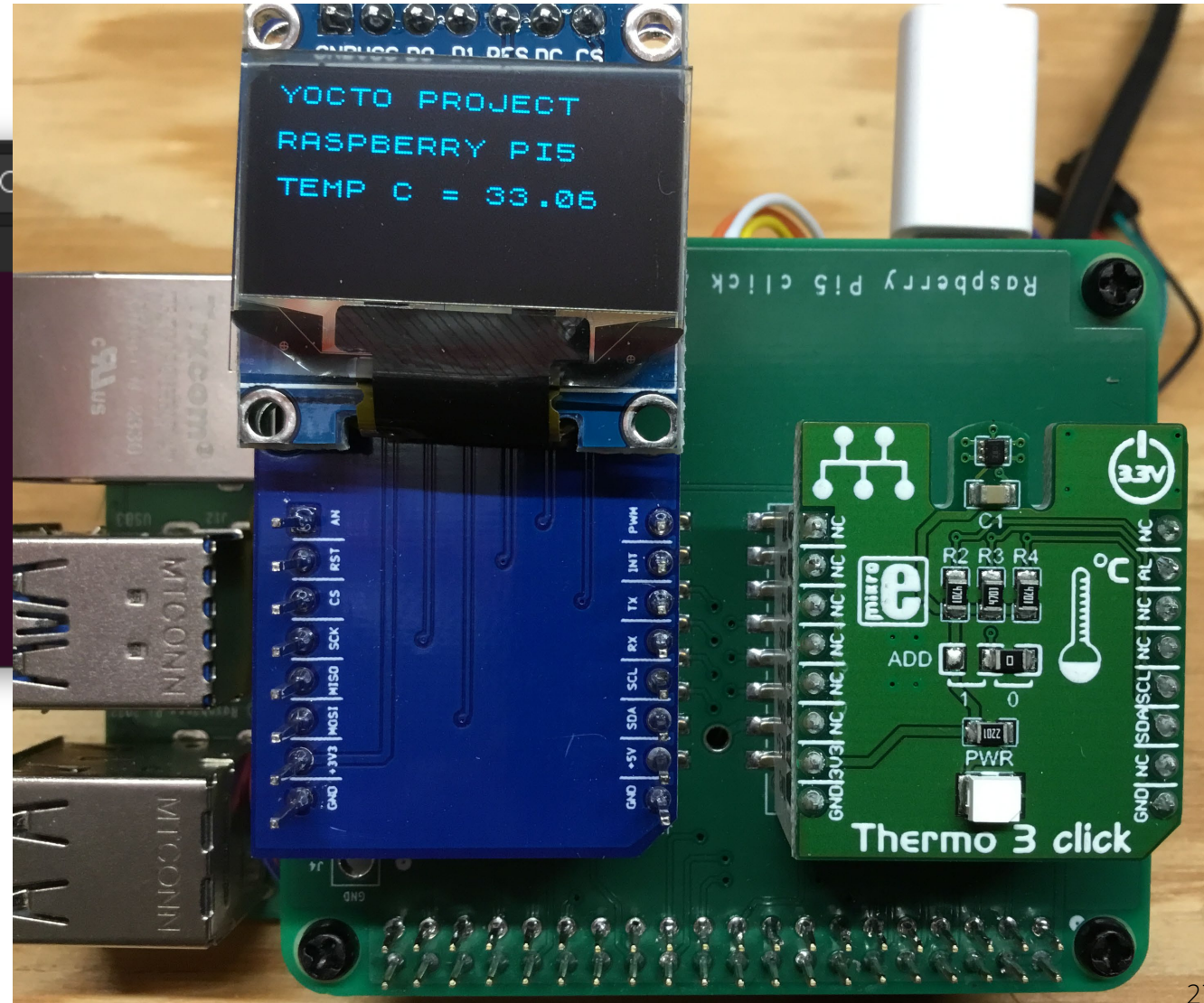
tempC = (float)tempBuf * 0.0625;

printf("INFO: Current Temperature -> %.2f deg C\n\n",tempC);

setTextXY(0,0);
sprintf(spiTxBuf,"YOCTO PROJECT");
displayString(spiTxBuf);
setTextXY(2,0);
sprintf(spiTxBuf,"RASPBERRY PI5" );
displayString(spiTxBuf);
setTextXY(4,0);
sprintf(spiTxBuf,"TEMP C = %3.2F",tempC);
displayString(spiTxBuf);
```

Execute the Application Code

```
fred@pi5-yocto: ~  
File Edit View Search Terminal Help  
root@raspberrypi5:~/pi5app# ./ssd1306TemperatureProject  
INFO: /dev/i2c-1 opened for Read/Write.  
INFO: Slave address changed to 0x48.  
INFO: Temperature Register Selected.  
INFO: (file descriptor) fd = 4  
INFO: 2 bytes were read-> rxBuf[0] 0x21 -- rxBuf[1] 0x10  
INFO: 16-bit value = 0x0211  
INFO: Current Temperature -> 33.06 deg C  
root@raspberrypi5:~/pi5app#
```



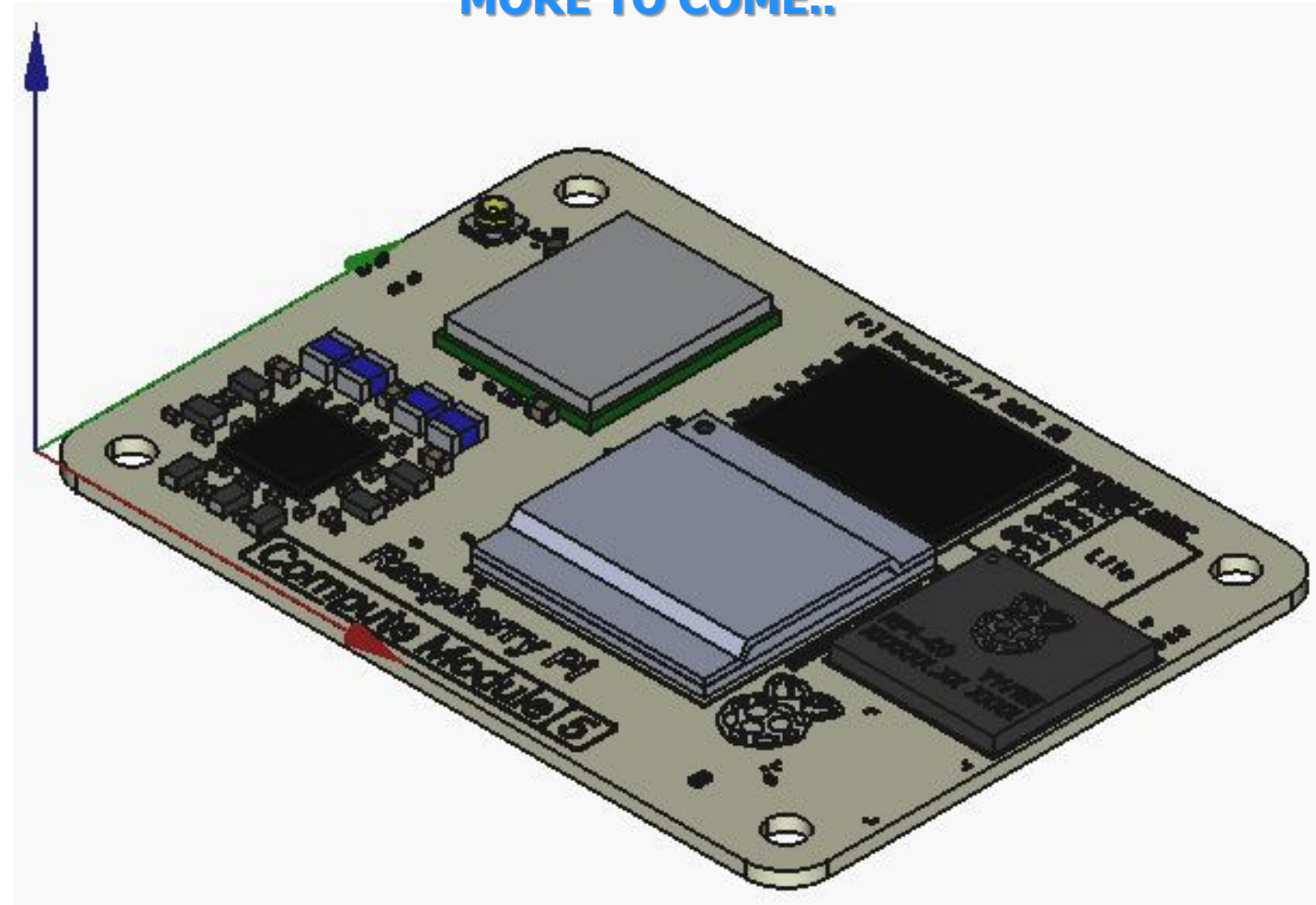
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