ESP32C Flashing, Provisioning and Line Test with C3 Flasher

Pre-Requisites

- □C3 Flasher
- ■ESP32C Hardware
- ☐ Flashing and Provisioning Tool Windows Software
- ☐ Line Testing using AC Simulator
- ☐ AC Simulator for Commission then RAC
- ☐Type B USB Cable
- ☐FTDI Chip
- ■Mini USB A Cable
- □Jumper Cables

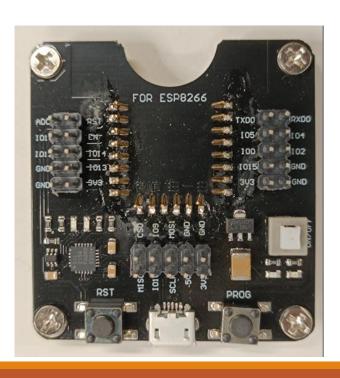
Pre-Requisites

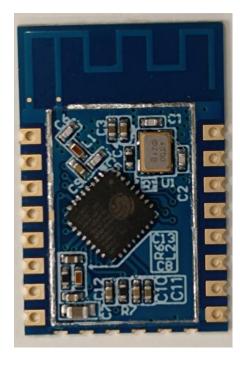
C3 Flasher

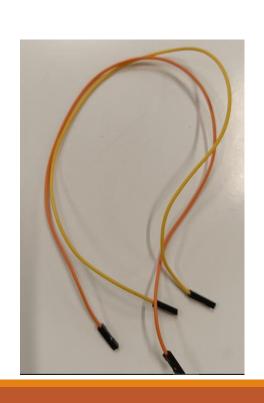
ESP32C

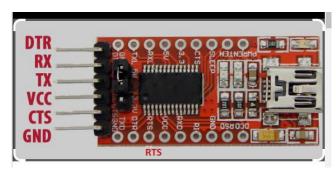
Jumper Cable

FTDI





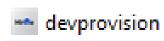




□ Please install OpenSSL and Set Environmental Path as per attached instructions file



□Open Tool from given folder – Shown as per below



18-09-2023 17:34

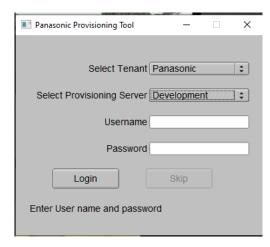
Application

5,452 KB

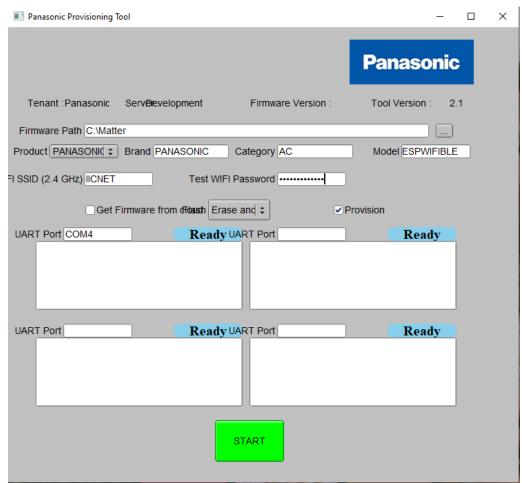
■ Select Tenant and Environment

Enter below username and password

- **□**Username -
- □ Password :-

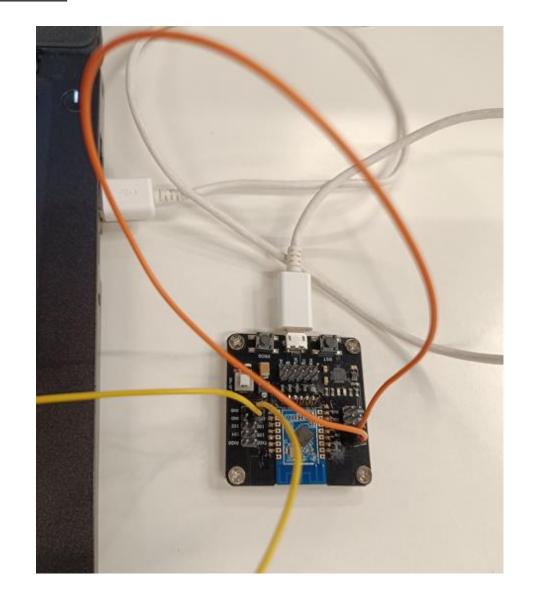


- □Copy firmware in folder as per given example without space C:\Matter
- Select Product AC
- □ Input SSID and Password [2.4 GHz]
- □ Input UART Port [Get it from Device Manager]

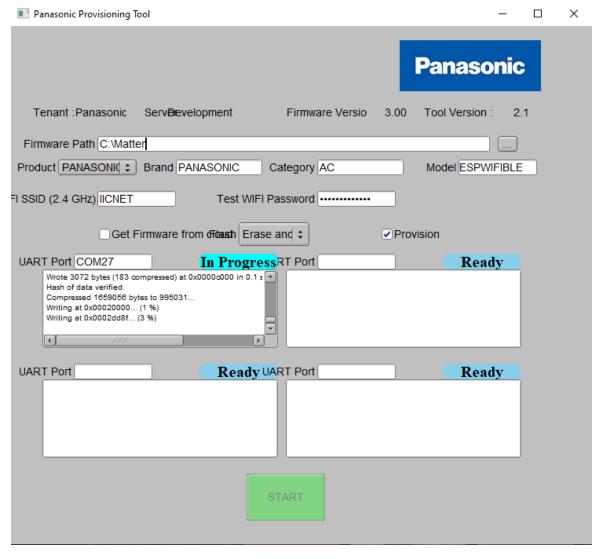


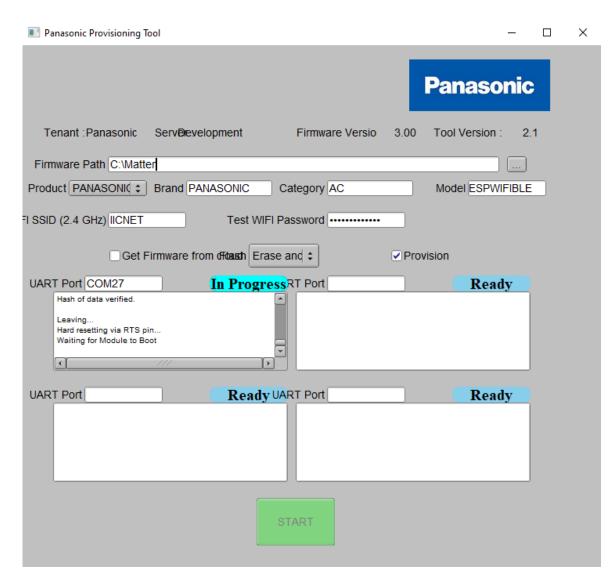
- ☐ Connect Jumper wires on Flasher as per show below picture
- ☐ Connection 1 : RST EN
- ☐ Connection 2 : 3V3 IO15
- □ Place ESP32C Module on C3 Flasher as per Shown in picture
- □ Connect C3 Flasher with USB Port on laptop
- ☐ Search Port in Device Manager and Enter

Same COM port in Panasonic Provisioning Tool

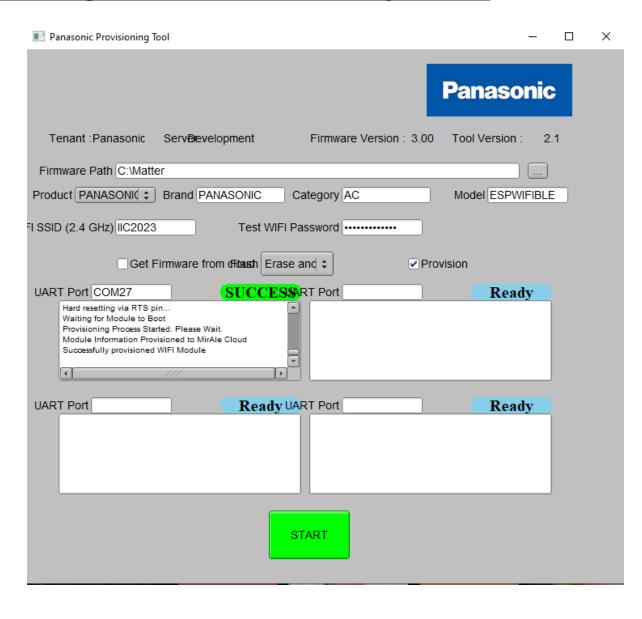


☐ Flashing progress





Provision Pass



<u>Line Test – Using AC Simulator</u>

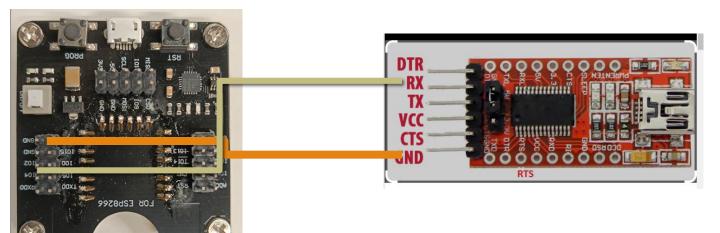
- ☐ Precondition User must have Python installed in System
- □ Open AC Simulator Tool and Input COM Port e.g. COM27 [Shown in Device Manager]

 Name
 Date modified
 Type
 Size

 ₽ ac_sim_1.7
 27-09-2023 16:02
 Python File
 42 KB

- □ Install Putty or Hercules to capture UART Logs for progress on line Test
- ☐ For Capture logs connect GND pin from C3 Flasher

To GND pin of FTDI and IO2 pin from C3 Flasher to RX pin of FTDI

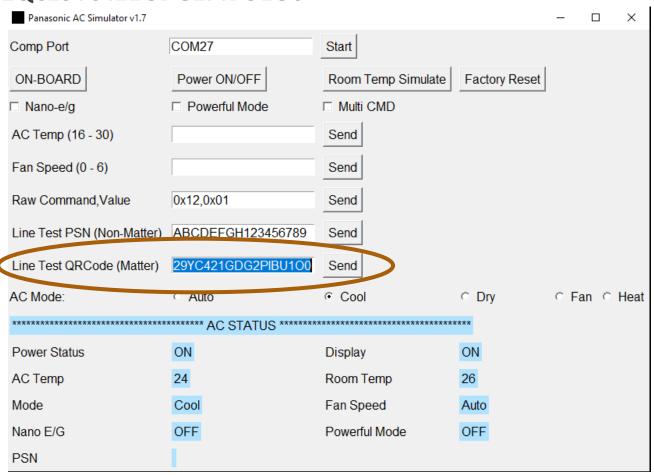


<u>Line Test – Using AC Simulator</u>

- □ Open AC Simulator Tool and Input COM Port e.g. COM27 [Shown in Device Manager]
- Update QR code string field by given QR code e.g.

MT:A3L90Q1Y00XZ.52AE4P0OUYH0O9ZR1S2QC29YC421GDG2PIBU1O0

□Click on 'Send' button next to QR code.



<u>Line Test – Using AC Simulator</u>

☐ Check Putty Log with logs prints . If it shows then Line Test Pass

```
D (482299) nvs: nvs_open_from_partition chip-factory 1/[0m
D (482304) nvs: nvs_set_str product-name CS-CU-HU18AKYF/[0m
[0;32mI (482310) chip[DL]: NVS set: chip-factory/product-name = "CS-CU-HU18AKYF" [0m
D (482317) nvs: nvs_close 80/[0m
D (482320) CHIP[DL]: matter_mfg_write_nvs_data:nvs_type=17/[0m
D (482326) nvs: nvs_open_from_partition chip-factory 1/[0m
D (482331) nvs: nvs set str mfg-date 20230921IN//Om
#[0;32mI (482336) chip[DL]: NVS set: chip-factory/mfg-date = "20230921IN"#[0m
D (482342) nvs: nvs close 81/0m

√[0;32mI (482445) LINE_TEST: √[0;33mlinetest_parse_http_respose, EXIT heap sz: 97764√[0]

D (482445) event: no handlers have been registered for event ESP_HTTP_CLIENT_EVENT:6 p
D (482454) event: no handlers have been registered for event ESP_HTTP_CLIENT_EVENT:6 p
□[0;32mI (482462) LINE_TEST: LT API Success □[0m]
```