FHDortmund.2022 / FW-update

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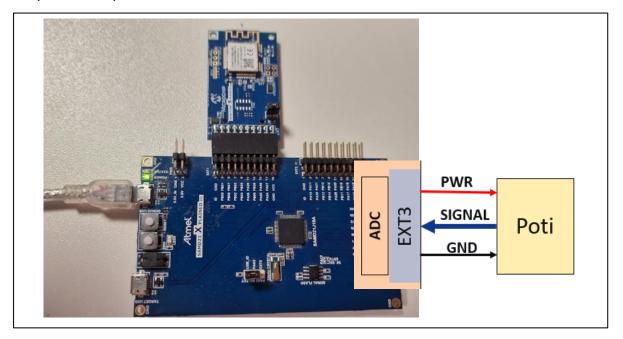
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History

v1.5: successful version using current wireless-repo 'wireless_wifi' (SL, 15.11.22)

FW-update

HW setup for FW-update



FW-update with 'new' repo 'wireless_wifi'

Follow steps from C:\mchp\mTools\harmony\v3\wireless_wifi\docs\index.html



Steps that need to be done to update the WINC1500-FW are

- create image with 'image_tool'
- 2. program serial_bridge.X into SAMD21
- 3. download new image (->'1') into WINC1500
- 1) create new image with image_tool

Tried to run from different directories BUT only work if run from

```
$RunDir=<h3>\wireless wifi\utilities\wifi\winc\files\winc1500\
```

Instructions on index.html mentioned cmd line to use:

```
(dos)> image_tool.exe -c winc1500_19.6.1\config.txt -o winc1500_19.6.1.prog -of prog
```

but that doesn't work -> working cmdLine looks like this (must run from \$RunDir -> see Test1,2!!):

First fails as provided flash_image.config has an invalid statement '[gain table]' -> just removed and now successfully creates \$runDir\winc1500_19.7.7.prog'

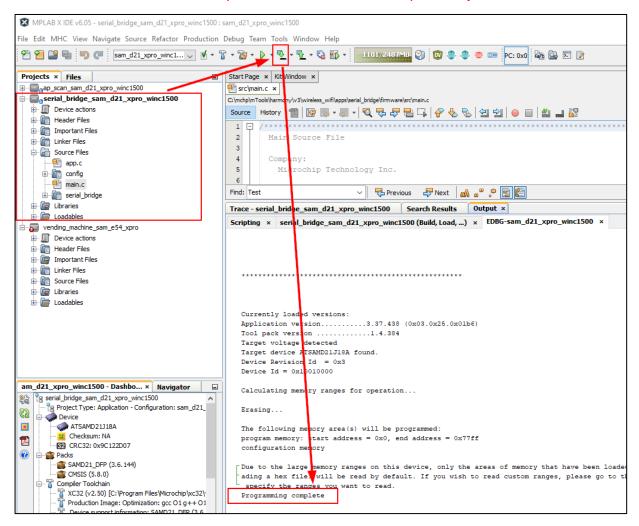
```
Envire Engs Creation Tool 1.0.1 (creeded) (Ar To 2022)
Copyright (C. Nicrochio Technology Inc. 2022)
Copyright (C.
```

2) serialBridge-FW

next need to download FW-update prj into SAMD21-xpl + WINC1500=EXT1 -> this creates a serial-bridge from 'hostPC-uart -> SAMD21 -> EXT1 -> WINC1500-uart' so you can download the new FW in step3 through this path.

Start MPLABX and load FW-update-prj <href="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="mailto:start"><hre="

Now make+download -> AND then press HW-reset button or power-cycle board



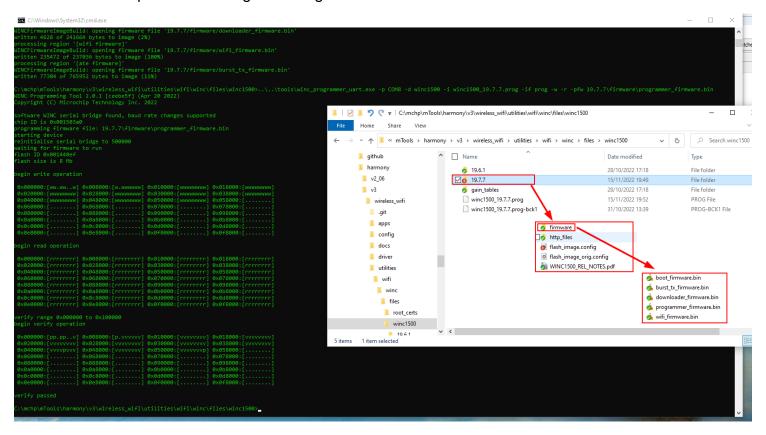
->now you've the new winc1500-image (->'1') and prepared your setup to provide a bridge from hostPC where the new image created in '1' is located to the WINC1500 (->'2'), so you can continue to download the new WINC1500-FW next

FHDortmund.2022 (SL, 24.10.22)

3) Update FW on winc1500

Now update the WINC1500-FW created in '1' through bridge from host-2-winc (->'2) with this cmdline (again must run from \$\text{runDir!} and find vCOM-port of your SAMD21):

->while FW-update is running the orange STATUS-LED on the SAMD21 is on



-> the final msg 'verify passed' informs about successful FW-update of the WINC1500

#eof