

# GEEHY OPENOCD ISSUE



## 1. Summary

I have connected my APM32F072VB-MINI board to the GEEHY-LINK probe. I'm following the instructions from this video to get it working with Eclipse (once it works in Eclipse, I can get it to work in Embeetle IDE as well):

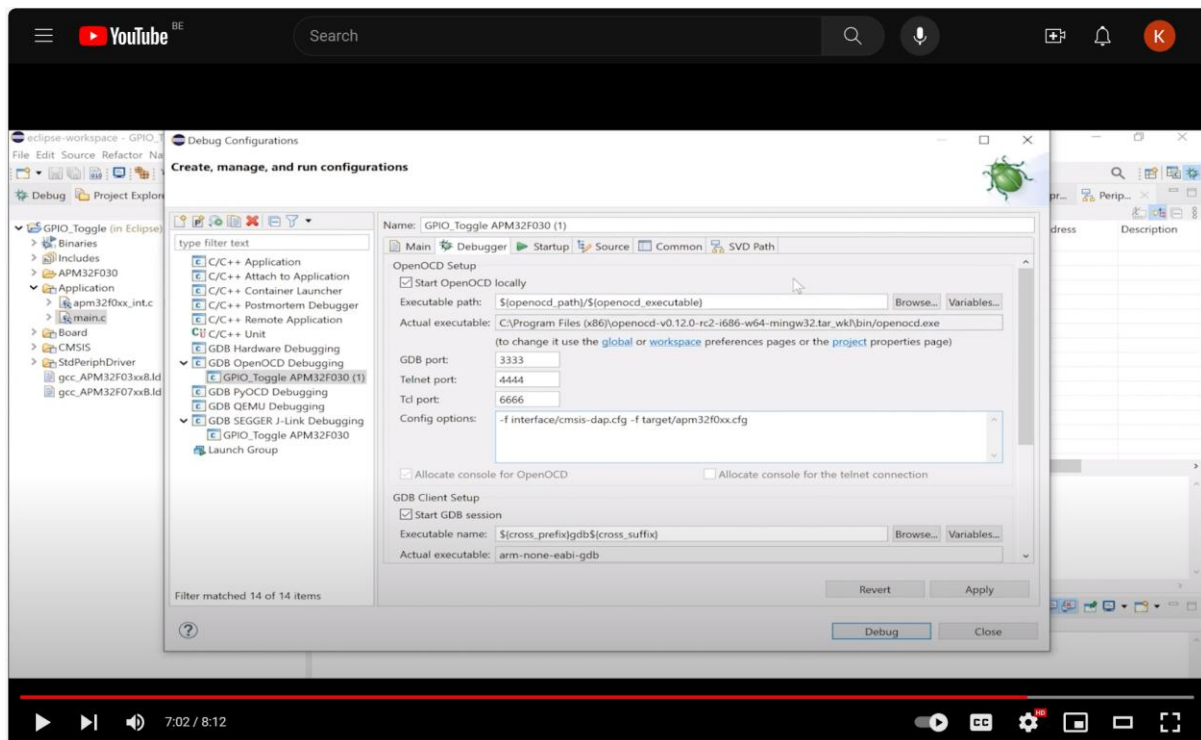
<https://www.youtube.com/watch?v=V2rEl61b028>

Unfortunately, OpenOCD gives the following error when trying to flash the firmware:

```
embedded:startup.tcl:28: Error: Can't find target/apm32f0xx.cfg
```

## 2. OpenOCD settings

The video shows the OpenOCD settings at 07:02:



As you can see, the Config options are as follows:

```
-f interface/cmsis-dap.cfg -f target/apm32f0xx.cfg
```

The OpenOCD version is the xPack 0.12.0-rc2, as seen on the video (see executable path). I found this OpenOCD version here:

<https://xpck.github.io/dev-tools/openocd/releases/>

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## The xPack OpenOCD releases















- xPack OpenOCD v0.12.0-2 released (download)
- xPack OpenOCD v0.12.0-1 released (download)
- xPack OpenOCD v0.11.0-5 released (download)
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- xPack OpenOCD v0.10.0-13 released (download)
- GNU MCU Eclipse OpenOCD v0.10.0-12 20190422 released (download)
- GNU MCU Eclipse OpenOCD v0.10.0-11-20190118 released (download)
- GNU MCU Eclipse OpenOCD v0.10.0-10-20181020 released (download)
- GNU MCU Eclipse OpenOCD v0.10.0-9-20181016 released (download)

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Which then leads to this page:

<https://github.com/xpack-dev-tools/openocd-xpack/releases/tag/v0.12.0-2/>

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 xpack-openocd-0.12.0-2-darwin-arm64.tar.gz	2.11 MB	Sep 5
 xpack-openocd-0.12.0-2-darwin-arm64.tar.gz.sha	109 Bytes	Sep 5
 xpack-openocd-0.12.0-2-darwin-x64.tar.gz	2.18 MB	Sep 5
 xpack-openocd-0.12.0-2-darwin-x64.tar.gz.sha	107 Bytes	Sep 5
 xpack-openocd-0.12.0-2-linux-arm.tar.gz	2.34 MB	Sep 5
 xpack-openocd-0.12.0-2-linux-arm.tar.gz.sha	106 Bytes	Sep 5
 xpack-openocd-0.12.0-2-linux-arm64.tar.gz	2.41 MB	Sep 5
 xpack-openocd-0.12.0-2-linux-arm64.tar.gz.sha	108 Bytes	Sep 5
 xpack-openocd-0.12.0-2-linux-x64.tar.gz	2.46 MB	Sep 5
 xpack-openocd-0.12.0-2-linux-x64.tar.gz.sha	106 Bytes	Sep 5
 xpack-openocd-0.12.0-2-win32-x64.zip	2.85 MB	Sep 5
 xpack-openocd-0.12.0-2-win32-x64.zip.sha	103 Bytes	Sep 5
 Source code (zip)		Sep 5
 Source code (tar.gz)		Sep 5

I unzipped this OpenOCD version and made sure that Eclipse points to it (Click 'Window' in top toolbar > 'Preferences' > unfold 'MCU' on the left > 'Global OpenOCD Path')

I continue the instructions from the video and press the 'Debug' button.

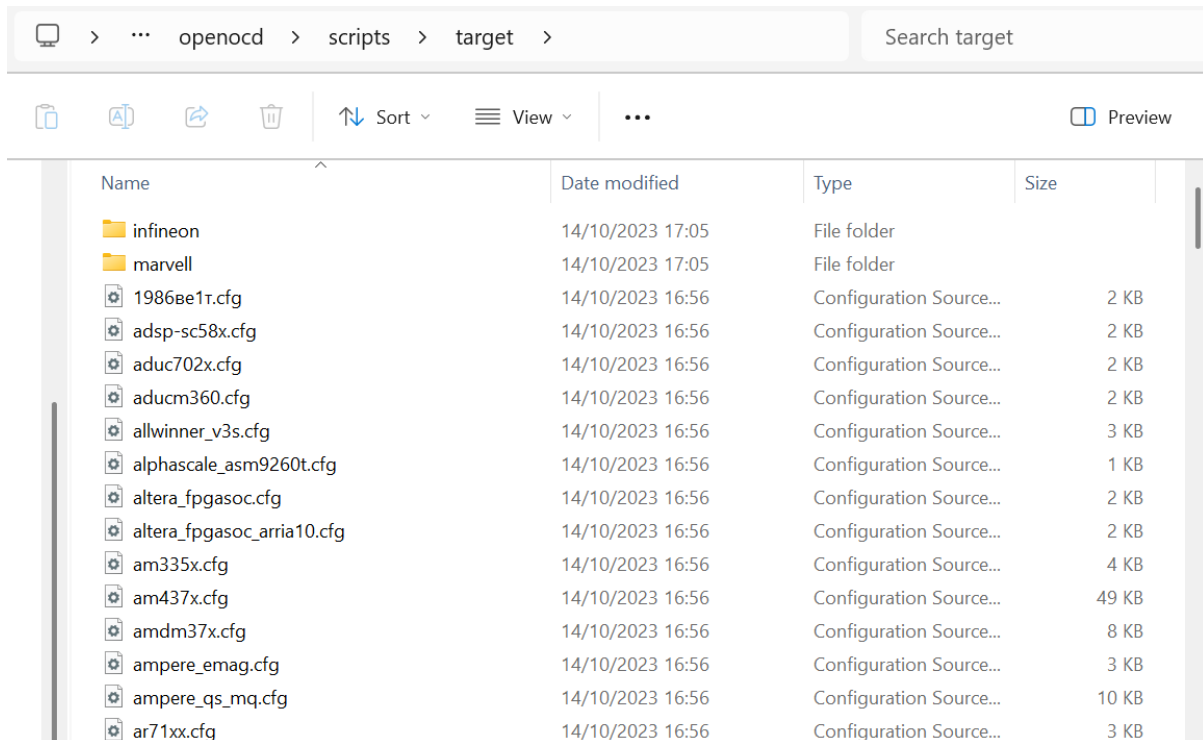
### 3. OpenOCD cannot find the target file

As soon as I hit the 'Debug' button in Eclipse, I see the following error message:

```
Problems Tasks Console × Properties
<terminated> GPIO_Toggle APM32F072 OpenOCD [GDB OpenOCD Debugging] openocd.exe (Terminated 14 Oct 2023, 17:40:24)
xPack Open On-Chip Debugger 0.12.0+dev-01312-g18281b0c4-dirty (2023-09-04-22:32)
Licensed under GNU GPL v2
For bug reports, read
    http://openocd.org/doc/doxygen/bugs.html
embedded:startup.tcl:28: Error: Can't find target/apm32f0xx.cfg
in procedure 'script'
at file "embedded:startup.tcl", line 28
```

It's clear what the problem is: OpenOCD cannot find the **target/apm32f0xx.cfg** file.

I look into the OpenOCD installation folder, inside its **scripts/target** subfolder:



Name	Date modified	Type	Size
infineon	14/10/2023 17:05	File folder	
marvell	14/10/2023 17:05	File folder	
1986be1t.cfg	14/10/2023 16:56	Configuration Source...	2 KB
adsp-sc58x.cfg	14/10/2023 16:56	Configuration Source...	2 KB
aduc702x.cfg	14/10/2023 16:56	Configuration Source...	2 KB
aducm360.cfg	14/10/2023 16:56	Configuration Source...	2 KB
allwinner_v3s.cfg	14/10/2023 16:56	Configuration Source...	3 KB
alphascale_asm9260t.cfg	14/10/2023 16:56	Configuration Source...	1 KB
altera_fpgasoc.cfg	14/10/2023 16:56	Configuration Source...	2 KB
altera_fpgasoc_arria10.cfg	14/10/2023 16:56	Configuration Source...	2 KB
am335x.cfg	14/10/2023 16:56	Configuration Source...	4 KB
am437x.cfg	14/10/2023 16:56	Configuration Source...	49 KB
amdm37x.cfg	14/10/2023 16:56	Configuration Source...	8 KB
ampere_emag.cfg	14/10/2023 16:56	Configuration Source...	3 KB
ampere_qs_mq.cfg	14/10/2023 16:56	Configuration Source...	10 KB
ar71xx.cfg	14/10/2023 16:56	Configuration Source...	3 KB

I cannot find the **apm32f0xx.cfg** file.