

2:10pm <u>#1045</u> Edited 5:57pm

Well, then let's run to him again what to do. So before starting ST-Link, you plug in the USB mini to PC USB connector. You will then start the ST-Link program.

You want to update the firmware of your antenna analyzer, right.

The ST-Link program is running, while you can check in the Device Manager if there is a 'ST-Link Virtual COM Port (COM ..)

Portok (COM és LPT)
 Portok (COM és LPT)
 FCP nyomtatóport (LPT1)
 Kommunikációs port (COM1)
 STMicroelectronics STLink Virtual COM Port (COM10)

If so, your computer has recognized the driver and can communicate with the analyzer.

You will then need to install the latest firmware (v1.04) that can communicate (after setup) via AA-600 emulation.

To do this, in the ST-Link menu, 'File', 'Open File' will look for the firmware on your machine that you have previously downloaded (v1.04) and click on it to load it into ST-Link.



STM32 ST-LINK Utility				×
File Edit View Target ST-LINK External Loader Help				
🖴 🖥 👹 🕼 🖉 🔇 🎯 🔜				
Memory display	Device 6	STM32F74x/F75x		
Megnyitás	Second D.			23
- G - K + HA3HZ (E:) + any_firmware + EU1KY_AA + 2021-05-07	v1.0.4 👻	++ Keresés: 20	021-05-07 v1.0.4	Q
Rendezés 🕶 Új mappa			88 • 🗊	0
* Név	Módosítás dátuma	Típus	Méret	
Conyvtarak Dokumentumok	2021-05-07 00:13	PowerISO File	603 KB	

The ST-Link program then establishes a connection to the analyzer with 'Target' and 'Connect'.

STM32 ST-LINK Utility		
File Edit View Ti	arget ST-LINK External Loader Help	
	Connect	
Memory display	Disconnect CTRL+D	
Address: 0x080	Erase Chip CTRL+E Erase Bank1	32 bits 👻
Device Memory Bi	Erase Bank2	
Device Memory	Erase Sectors	
	Program	
	Program & Verify CTRL+P	
	Blank Check	
	Memory Checksum	
	Target memory compare with file	
	Option Bytes CTRL+B	
	MCU Core	
	Automatic Mode	
	Settings	

STM32 ST-LINK Utility		
File Edit View	Target ST-LINK External Loader Help	
Memory display	Connect Disconnect CTRL+D	
Address: 0x080	Erase Chip CTRL+E Erase Bank1	
Device Memory @ (Erase Bank2	
[F7Discovery.bin], F	Erase Sectors	
Address	-	
0x0000000x0	Program	
0x00000010	Program & Verify CTRL+P	
0x00000020	Blank Check	
0x00000030	Memory Checksum	
0x00000040	Compare device memory with [F7Discovery.bin]	
0x0000050	Option Bytes CTRL+B	
0x00000060		
0x00000070	MCU Core	
0x0000080	N Automatic Mode	
+ [15.07.77.7233712	Settings	

Then go to 'Target' and 'Automatic Mode' here you start the new firmware upload with the 'Start' button. More possibly more complicated, I recommend automatic first.

File Edit View	Target ST-L	INK Ex	itemal Loader Help	
Memory display Address: 0x08	3000000 - Siz	e: 0	0x96A14 Data Width: 32 bits -	Device STM3 Device ID 0x449 Pevicion ID Pevi Z
Device Memory @	0x08000000 :	File : F7D		
[F7Discovery.bin],	File size: 616980	Bytes	File	p
Address	0	4	E:\any_firmware\EU1KY_AA\2021-05-07 v1	.0.4\F7D Browse
0x00000000	20008000	0802F	0802F Actions 0802C 00000 Full chip erase 00000 Flash programming	
0x00000010	0802DD49	08020		
0x00000020	00000000	00000		
0x0000030	0802DD51	00000		
0x00000040	080001C9	08000	Skip Flash Protection verification	Skip Flash Erase
0x00000050	080001D1	08000	Verify	
0x0000060	080001D9	08000	Ø Verify while programming O Verify	after programming
0x00000070	080001E1	08000	Full Memory Checksum	
0x0000080	080001E9	08000	Option bytes configuration Configure	
*	III	Proteiner	Run application	
13:04:07 : V255mm 13:04:07 : Connec 13:04:07 : SWD Fr	ted via SWD. equency = 4,0 Mi	Hz.	Start	Stop

When done, you will get a message in the ST-Link Utility program window: 'Memory programmed in 15s and 366ms' shows computer-dependent transmission time.



You will then use 'Target' and 'Disconnect' to disconnect the communication between ST-Link and the analyzer.

You turn off and restart the analyzer.

USB cable remains required for AntScope2 connection, but first some setup. You must configure the analyzer to communicate with AntScope2 PC.

To do this, first enter the 'Configuration' (bottom left corner) then 'Communication' button.

In the 'configuration Editor' use the '<Prev param' to scroll to the 'SHOW_HIDDEN' parameter, you set it to YES.

You will then see the parameters still to be set.

In 'Next param> at SERIAL_EMULATION' you set 'AA-600', which you close with 'Save and exit'.

You start AntScope2 and first you need to open the 'Settings' window (bottom left corner). Here you set whether you want to connect manually or automatically, check if the COM port recognition is correct.

Settings	11 11	<u>8</u> ×
General OSL Calibration	Cable	
	 Show graph: Init: 	
Metric	Show markers hint	O Cark
Intestat	Show orief params under cursor	Olight
5 😳 Max measurements		
	50 Johnn	
Auto		
V Morana R		
(a	ITU Region 1 - Europe, Africa 🔻 📖	Showband name
COM10 *	Language: English	V
		Close

You set the required additional parameters and then restart 'AntScope2'. You are probably detecting 'AA-600'.



If not, check that the PC and analyzer COM port speeds are set the same. see Analyzer-> Configuration-> Configuration '-> step to' COM_SPEED '

Note that with the 'Configuration Editor' you can change many parameters, just do it carefully !!!

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73, Gyula HA3HZ
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