

# How to update your Firmware on your Satevis<sup>®</sup> device

# V1.1/15.03.2024

## Pre-conditions for Firmware Update :

- Battery Power should be powered off
- Your Satevis<sup>®</sup> device should be connected to your PC through USB –M8 Cable adapter
- STM32 Cube Programmer should be installed on your PC (you can download it from our FTP access)

1. Connect your Satevis<sup>®</sup> device to your PC with the USB/M8 cable adapter provided with it. The M8 plug comes with a positioning notch, insert it with the marking **' Signal => '** on the top side.

Use the device manager to check which COM PORT is used (enter Device Manager on your search engine).

Satevis<sup>®</sup> Device integrates the latest CH343 USB Chipset



📇 Device Manager	_	>
File Action View Help		
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Audio inputs and outputs		
Cameras		
> Disk drives		
Display adapters		
> 🔤 Human Interface Devices		
> 🖷 IDE ATA/ATAPI controllers		
> 🚡 Imaging devices		
> Keyboards		
Mice and other pointing devices		
> 🛄 Monitors		
> 🚽 Network adapters		
🗸 🛱 Ports (COM & LPT)		
🛱 Communications Port (COM1)		
💭 Intel(R) Active Management Technology - SOL (COM3)		
USB-Enhanced-SERIAL CH343 (COM16)		
USB-SERIAL CH340 (COM14)		
> 🚍 Print queues		
> 🖻 Printers		
> Processors		
> Software devices		
Sound, video and game controllers		
> 🚘 Storage controllers		
> 🏣 System devices		
III Universal Serial Rus controllers		

## Launch STM32 CubeProgrammer



#### **Click on Erasing and Programming on the menu** Select UART communication from the scroll list Prg STM32CubeProgrammer × f 🕨 \* 57 STM32 Data Information Notice Memory & File e liting Not connected UART Memory & file editina UART configuration Lerasing & programming Find Data ize 0x400 Data width 32-bit 0x Port COM16 C OB Option bytes Baudrate 921600 CPU MCU core Parity Even Data bits swv Serial Wire Viewer Stop bits 🧭 Secure Programming No data to display Flow control DTR 0 Read Unprotect (MCU) TZEN Regression (MCU) (Palculator 🔝 Fault Analyzer - BETA Target information 4 M16, it may be used by another application or port name is invalid. Board ned with the HWrst reset mode P Device External loaders Type Device ID Full chip erase M16, it may be used by another application or port name is invalid Revision ID Flash size CPU (?) Help **Bootloader Version**







#### The status LED will switch to green color, your Satevis® device is now connected Prg STM32CubeProgrammer $\sim$ STM32 🐵 F 🕨 \* 57 Data Information Notice Erasing & Programming Connected Erase external memory Frase flash memory Download File path C:\Lorakit STM\Source codes\SatevisVERS1\Pro Start address Select Index Start Address Size Skip flash erase before programming 0 0x08000000 2K Verify programming Full Flash memory checksum 0x08000800 1 2K Run after programming 2 0x08001000 2K 3 0x08001800 2K 4 0x08002000 2K Automatic Mode 5 0x08002800 2K Full chip erase 0x08003000 6 2K 🗸 Download file 0x08003800 7 2K 1 2 3 Live Update Verbosity level Log 20:05:25 : UPLOADING . Target information < 20:05:25 : Size : 1024 Bytes Board 20:05:25 : Address : 0x8000000 P Device STM32WLxx 20:05:25 : Read progress: Type Device ID MCU 0x497 20:05:26 : Time elapsed during the read operation is: 00:00:01.052 Ø) Revision ID Flash size 256 KB - Default CPU Cortex-M4 **Bootloader Version** 100% $(\mathbf{x})$





### This Pop-up window will appear : 'Start Operation was successful '

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STM32	1 Data Information Notice	FI 🔼 🎽 🔆 🏹		
Erasing & Programming		Not connected		
Download	Erase flash memory Erase external memory	UART Connect		
File path C:\Lorakit STM\Source codes\SatevisVERS1\Pro  Browse Browse	Warning			
OB     Start address       CPU     Skip flash erase before programming	Warning: Connection to device 0x497 is lost	e 921600 👻 Even 👻		
🗤 Verify programming Verify programming		OK IS 8		
Run after programming Start Programming	No sectors to display	Stop bits 1.0  Flow control Off		
Automatic Mode	_	RTS 1		
Full chip erase		DTR 0		
✓ Download file	v	Read Unprotect (MCU) TZEN Regression (MCU)		
Log	Live Update Verbosity level   1 2 3			
21:25:57 : Error: GETID command not acknowledged!           21:25:57 : Reemission of GetID command	^ <b>4</b>	Target information		
(1)         21:25:58 : Timeout error occured while waiting for acknowledgement.           21:25:58 : Error: GETID command not acknowledged!		Board _ Device _ Type		
21:25:58 : Warning: Connection to device 0x497 is lost 21:25:59 : Disconnected from device.		Device ID -		
	Log		Live Update Verbosity level	• 1
	21:25:57 : Reem 21:25:58 : Time:	nission of GetID command out error occured while waiting for acknowledgement.		
Wait Until the end of	21:25:58 : Error 21:25:58 : Warn 21:25:58 : Warn 21:25:59 : Dicor	GETID command not acknowledged! Ingl: Connection to device 0x497 is lost meeted from device.		
device disconnection				

You can disconnect and reconnect your device, it will start to work with a new firmware.

## Warning :

If your Satevis<sup>®</sup> device is accidentally disconnected from the USB during the firmware programming, the electronic board will be corrupted, and you need to use a specific Hardware adapter to program it again. Please contact us to order it.

If you fail to upload a firmware , restart your device and make sure the battery power is off.