## How to upgrade the EncoderHub FW in Antrack-Pro

**STEP1:** download the latest EncoderHub FW and the Xloader software from the LinkRF technical corner:

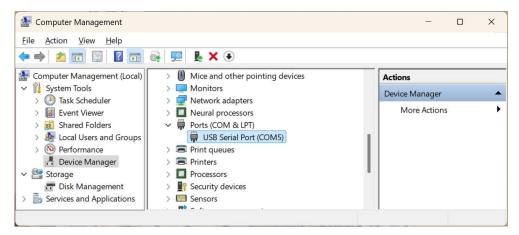
https://linkrf.ch/AnTracktech.html.

**STEP2:** Create a folder in your C:\ drive named C:\Encoderhub, place the FW file with the extension .HEX inside and copy the Xloader software extracted from the zip file in the same directory you create, it will look like:

	C:\Encoderhub	×	+			-	
←	$\rightarrow$ $\downarrow$ C	Q	> This PC	> Windows (C:) >	Encoderhub >	Search Encod	erhub Q
<b>(</b>	New - 🐰 🗘	Ĩ	a) e	û îlv Sort ∽	≡ View ~ ····		🔲 Details
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> 📜 Documents and Settings		<b>=</b> ,	kLoader	29/11/2024 16:48	File folder		
> 📜 Dokumente und Einstellungen		1	EncoderHub_3.4.ino.hex	29/11/2024 16:48	HEX File	20 KB	
>	Encoderhub						
>	📜 hp						
2 iter	ns						

**STEP3:** Remove carefully the Arduino NANO MCU from the EncoderHub, DO NOT TRY TO UPLOAD THE FW WITH THE ARDUINO NANO CONNECTED TO THE ENCODERHUB, this will end in an unstable MCU unit.

**STEP4:** Plug the Arduino NANO to your PC with the properly USB cable, go to "Device Manager", it will take some minute until Windows will detect, download and install the COM drivers, when the COM port is ready will show like that:



select COM Ports and under "Properties" fix the speed in 57600.

General	Port Settings	Driver	Details	Events	
		<u>B</u> its p	er second:	115200	$\sim$
			Data bits:	8	~
			Parity:	None	~
			Stop bits:	1	$\sim$
		Ē	ow control:	None	~
	Ad		vanced	ced <u>R</u> estore Default	

**STEP5:** Go to the "Xloader" folder inside the C:\EncoderHub folder and run the file Xloader.exe "As Administrator", you must run "As Administrator

🕻 Xload			×
Hex file			
1			
Device			-11
Mega(ATME	GA12	80)	~
COM port		Baud rate	
	~	57600	
Upload		Abo	ut

Under "Hex file" browse and find the FW you download with the extension HEX, open device and select "Duemilanove/Nano/ATmega328", open COM port and select the properly port, the speed will be 57600. If doesn't work try to modify your COM port speed to 115200 and use that speed in the Baud rate

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/Nano	(ATmega32	28) 🗸
	Baud rate	
~	115200	
	Abou	3
	/Nano	ub\EncoderHub_ //Nano(ATmega32 Baud rate

STEP6: Pres "Upload", the software will response "Uploading", when finish will show

X Xload	<u></u> :		×
Hex file			
C:\Encoderhub	Enco	derHub_	
Device			
Duemilanove/N	lano(A	Tmega32	28) ~
COM port	Ba	aud rate	
COM5	~ 1	15200	
Upload	ļ	Abo	ut
7030 bytes uplo	aded		.:j

The number of bytes "uploaded".

**STEP7:** Unplug the USB cable and reconnect your Arduino NANO MCU into the EncoderHub, you are ready with the latest FW.

If you see "uploading" and not finish something goes wrong, unplug the NANO, check the COM port speed (must be 57600 or115200 according to your selection) re-plug, re-run the Xloader program "As Administrator" and check the port and the speed in the Xloader program, don't forget to run the Xloader "As Administrator" otherwise will not work

**STEP7:** Unplug the USB cable and reconnect your Arduino NANO MCU into the EncoderHub, you are ready with the latest FW.

73 de Alex, HB9DRI