

ANT-1776 nano – update to firmware 1.0.8.4 using Maris Guard

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Document info

Phone: +44 1628 626098, during UK office hours, and ask for technical support

Version	date	author	Comments
0.1	30-Aug-23	David M	Initial draft – install 3.6.3, Guard 2.8.1, Player 2.3.8



1. Setup

PC windows 10 or 11	to install and run Maris Guard and Maris player
ANT-1776 nano	to be updated
Update file	update-V1.0.8.4-D07_08_2023-13_03_23.tar.bz2

2. Install Maris Guard and Maris Player

Currently file name is: maris_install_3.6.3_win10_x64.exe

Available from:

https://downloads.antrica.com/UAV-Encoders/ANT-1776/Software/install-3.6.3 Guard-2.8.1 Player-2.3.8/

Run the application installer.

Figure 1 : Install location

Setup - Maris version 3.6.3			×	Figure 2 : Start Menu folder na	me
Select Destination Location			FI	占 Setup - Maris version 3.6.3	- 0
Setup will install Maris into the following folder.			(10))	Select Start Menu Folder Where should Setup place the program's shortcuts?	L (a)
To continue, dick Next. If you would like to select a different fol C:/Program Files (x86)\Maris	der, click Bro	owse.		Setup will create the program's shortcuts in the follow To continue, click Next. If you would like to select a different f	ving Start Menu folder. older. dick Browse.
				Maris	Browse
			C		
At least 368.9 MB of free disk space is required.					
	Next	Ca	ancel		
				Back	Next Cance

Figure 3 : Are Desktop short cuts required? - recommended

🗠 Setup - Maris version 3.6.3 — 🗆 🗙	Figure 4 : installation overview
Select Additional Tasks Which additional tasks should be performed?	Setup - Maris version 3.6.3 — 🗆 X
Select the additional tasks you would like Setup to perform while installing Maris, then dick Next.	Ready to Install Setup is now ready to begin installing Maris on your computer.
Additional shortcuts:	Click Install to continue with the installation, or click Back if you want to review or change any settings.
	Destination location: C:\Program Files (x86)\Maris Start Menu folder: Maris
	Additional tasks: Additional shortcuts: Create a desktop shortcut
Back Next Cancel	
	Back Install Cancel



Figure 5 : Install progress



Figure 7 : Npcap License Agreement



Figure 9 : Npcap installing





Figure 11 : Npcap installed



Figure 13 : Desktop shortcuts created





3. Update firmware using Maris Guard

The update file "**update-V1.0.8.4-D07_08_2023-13_03_23.tar.bz2**" and should not be uncompressed or altered in any way. It can be downloaded from

https://downloads.antrica.com/UAV-Encoders/ANT-1776/Firmware/CURRENT%20Firmware/V1.0.8.4/

Run Maris Guard and select the required board

Figure 14 : Maris Guard



Figure 15 : Select "update" and then click "..." to navigation to file location

🦋 Maris Guard	- 🗆 X
CA	Maris Guard
Board	Select File C:\Users\admin\Downloads Special Update
Network	Partition 1
Update	Reboot
Export	Factory Default
Download	Notes: 1. Click "" to select a source file or folder. 2. Click "Update" to update the board's software. 3. Click "Reboot" to reboot the board. 4. Click "Factory Default" to restore the board to the factory default settings. You can
About	use the "Export" menu to save the current configuration.
	Board IP: 192.168.0.31 Count: 2



Figure 16 : Navigate to file location, select file then click "Open"

🖋 Open File								×
\leftrightarrow \rightarrow \checkmark \uparrow	« UAV > ANT-1776_firmware > ANT-1776-nano_v1	.0.8.4_230825		~ C	Search ANT-1	776-nano_	_v1.0.8	Q
Organize 🔻 New folde	er					≣ •		0
- DATA (D:)	Name	Size	Туре	Date modified				
\$RECYCLE.BIN	A 230824-1655 UART J-N.pdf	92 KB	Adobe Acr	25/08/2023 09:51				
ShareOnD	230824-1655 UartSettings.png	112 KB	PNG File	25/08/2013 11:43				
BlackDellE	230824-1655_Update 1.0.8.4.mht	302 KB	Microsoft	25/08/202: 11:43				
ANT_product	230824-1655_Update 1.0.8.4.msg	322 KB	Outlook It	25/08/2023 1:43				
ANT-3Xx00	230825_v1.0.8.4_testing.txt	2 KB	Text Docu	25/08/2023 13:25				
ΔNT-220x	eupdate-V1.0.8.4-D07_08_023-13_03_23.tar.bz2	132,278 KB	WinRAR ar	25/08/2023 09:51				
ANT-35000				· · · · · ·				
ANT-37000								
ANT 27500								
ANT-57500								
UAV								
ANI-1//1								
ANT-1776								
D ANT-177								
File na	ame: update-V1.0.8.4-D07_08_2023-13_03_23.tar.bz2			~	All File (*)			~
					Open		Cancel	

Figure 17 : Click "update"

🦋 Maris Guard	— — — — — — — — — — — — — — — — — — —	×
CA	Maris Guard	
Board	Select File 4_230825/update-V1.0.8.4-D07_08_2023-13_03_23.tar.bz2 Special Update-V1.0.8.4-D07_08_2023-13_03_23.tar.bz2	date
Network	Partition 1 Partition 2	
Update	Reboot	Note "Partition 1" is
Export	Factory Default	
Download	Notes: 1. Click "" to select a source file or folder. 2. Click "Update" to update the board's software. 3. Click "Reboot" to reboot the board. 4. Click "Factory Default" to restore the board to the factory default settings. You can	
About	use the "Export" menu to save the current configuration.	
	Board IP: 192.168.0.31 Count: 2	

Figure 18 : Update progress #1

Partition 1 Pa	artition 2	4%
Update	Uploading file: update-V1.0.8.4-D(07_08_2023-13_03_23.tar.bz2 1/1

The update takes about 5 minutes. During this time the ANT-1776 nano will reboot.

Figure 19 : Update message once update has completed

Update	The update completed successfully
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The Webpage will now show the 1.0.8.4 version as the installed version, see Figure 20.

Figure 20 : Webpage reported installed version - 1.0.8.4

номе	SETTING	INFO	ABOUT	
	Hardv	vare		
	Board	: nano 10		
	CPU:			*
	Type: Numb	i.MX8MP er: 4		
	Speed	: 1600MH		
	SoftW	are	022 09:21:27	
	libudy	pdvr.so: 7,9	.9.4	
	LDVC: FPGA:	1.0.8.4 Unknown		
	Netwo	ork		



4. Maris player

4.1. Activation

Once installed the Maris Player has 30 free use period before an activation key is required. The popup appears each time the Player is started, and on the bottom of the player is a reminder

Figure 21 : Maris Player - activation reminder popup



Figure 22 : Access Activate menu

📀 Maris Player	Figure 23 : Activation setup - popup window
Media Video Audio Tools Help Help About Activate	⊘ Maris Player Media Video Audio Tools Help
	Activation Setup
	Send the provider number to get the activation number.
	Provider number: 18458
	Activation number:
	OK Cande

You will need to contact us with the 5 digit "Provider number" and we will supply you with the "Activation number". Please note each time the "Activation setup" windows is open and closed the provided number will be different. We have to supply the "Activation number" for the unique "Provider Number".



Once activated the "Activate" from the top menu is greyed out

Figure 24 : Maris Player activated



The "HW Acceleration" need to be disabled, see Figure 25.



Figure 25 : Maris player setup



4.2. **RTSP streaming setup**

To access the RTSP stream from mux1 the RTSP URL is **rtsp://192.168.0.30:554/mux1.sdp**. In Figure 27 and Figure 28 these setting are added. Then click "play" to start the steam

Figure 27 : Access "Network Stream" settings

Maris Player Media Video Audio Tools Help	Figure 28 : Network streaming pop-up menu	
De Play File	Mudia Video Audio Teste Unio	
Wetwork Stream	Media Video Addio loois Help	
Data Switch Display Start Streaming Ctrl+O Stop All Ctrl+S HW Acceleration Tracking	Network streaming Stream mode: Transport RTP Split RTSP RTMP RAW H265 Encryption URL(IP) 192.168.0.30 SDP mux1.sdp Port 554 Other UP TCP User Name delay (ms): Password Record Trick Mode C:/Users/nuc3/Videos Play	? ×