

ANT-1771, 1772 & 1773 Firmware Upgrade options

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Synopsis

There are 2 methods to upgrade the firmware; using and SD card (if the SD card holder is fitted to the ANT-177x UAV device) or using Neptune Guard.

Neptune Guard is an application which has to run on a Windows operating system.

This document mainly covers the Neptune guard method. The SD card method is mentioned.

Document info

Version	date	author	Comments
0.1	18-Oct-19	David M	First draft



1. SD card option

This option will re-flash the image on the UAV model and all configuration will be lost

In the firmware section of the product web page (go to Antrica.com -> ANT-177x Product page -> Downloads -> Firmware). Download the guide (SD Update Guide.pdf) and the firmware file (i.e. version_2.3.8.6.rar)

Following the instructions in the "SD Update Guide.pdf" guide

2. Neptune Guard option

Neptune Guard will only work under Windows operating system. There is **not** an alternative operating system variant.

2.1. Pre-requisites

Neptune Guard and the firmware files needs to downloaded from the Antrica web site.

2.1.1. Neptune Guard

- 1. go to Antrica.com -> ANT-177x Product page -> Downloads -> Software -> "Neptune Guard_Player"
- 2. Download neptune_install_1.3.4.rar. 1.3.4 is the current version
- 3. Extract and install from the "neptune_install_1.3.4.exe" file
- 4. Neptune Guard and Neptune player will be installed see link below for activation and use of Neptune Player

https://www.dropbox.com/s/4aw3g489hjmooov/ANT-177x_NeptunePlayerActivation.pdf?dl=0

2.1.2. Firmware file

- 1. go to Antrica.com -> ANT-177x Product page -> Downloads -> firmware
- 2. If older versions are required navigate to the "Archived Firmware" folder
- 3. Download the RAR file. Currently "version_2.3.8.6.rar"
- 4. Extract the folders / files from the RAR file
- 5. There will be folders one called "guard_update" the other "sd_update". Do not alter the names or contents of these folder

2.2. Upgrade process using Neptune Guard

- 1. Start Neptune Guard. It will find all the ANT-1771, ANT-1772 and ANT-1773 on the network. See Figure 1
- 2. Select the ANT-177x you wish to update



🦋 Neptune Guard X Neptune Guard Boards: IP address of current UAV module Board Select Board: Drop down to view all available UAV modules Network 192.168.1.51 • Information Update CPU: imx6 Board Name: ldvc Import Application Name: LDVC Current build Serial Name: 5d59f9af Settings Total number of UAV modules found 2.4.0.5 Board Version: About Go to web Board IP: 192.168.1.51 Count:

Figure 1 : Neptune Guard showing UAV modules

- 1. From the left hand menu select "Update" see Figure 2
- 2. Navigate to the "guard_update" folder from step 5. In section 2.1.2. Do not click on to the contents of the folder just select the folder name itself.
- 3. Click update.

嘴 Neptune Guard		×
	Neptune Guard	
Board	Update Board: PC Source Folder: pOnG/version_2.3.8.6/version_2.3.8.6/guard_update	
Network	1. Selected Update from Left hand menu	
Update	2. Browse for the "guard_update" folder Reboot 3. Click update	
Import	Factory Default	
Settings	Note: Click on 'Select Source' button to select source folder. The "Guard" send the files in the selected folder exactly in the structure in which they are arranged. Click 'Update' to start update the files. Click 'Reboot' to reboot the system.	
About	Click 'Factory Defualt' to set factory default setting	
	Board IP: 192.168.1.51 Count: 2	

Figure 2 : Neptune Guard Update page

4. Click update.



- 5. Neptune guard will then show:
 - 5.1. the uploading of the files
 - 5.2. the upgrading
 - 5.3. rebooting
 - 5.4. the ANT-177x is ready to use

See Figure 3Figure 4 to Figure 6

Figure 3 : Neptune Guard showing the ANT-177x Uploading files

Neptune Guard			 10	_
CA	Neptune Guard			
Board	Update Board: PC Source Folder: pOnG/version_2.3.8.6/version_2.3.8.6/guard_update			
Network				
Update	Update Image: Constraint of the sector of			
Import	Factory Default			
Settings	Note: Click on 'Select Source' button to select source folder. The 'Guard' send the files in the selected folder exactly in the structure in which they are arranged	d.		
About	Click 'Update' to start update the files, Click 'Rebot' to reboot the system, Click 'Factory Defualt' to set factory default setting		 	
	Board IP: 192.168.1.51 Count: 2			

Figure 4 : Neptune Guard showing the ANT-177x installing files

Neptune Guard		- 0	×
CA	Neptune Guard		
Board	Update Board: PC Source Folder: pOnG/version_2.3.8.6/version_2.3.8.6/guard_update		
Network			
Update	Update Reboot Please wait, it may take a few minutes		
Import	Factory Default		
Settings	Note: Click on 'Select Source' button to select source folder. The "Guard" send the files in the selected folder exactly in the structure in which they are arranged.		
About	Click 'Defate' to start update the files, Click 'Reboot' to reboot the system, Click 'Factory Defualt' to set factory default setting		
	Board IP: 192.168.1.51 Count: 2	The application and commut	



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📽 Neptune Guard		- 🗆 X
C LA	Neptune Guard	
Board	Update Board: PC Source Folder: pOnGiversion_2.3.8.6iversio	n_2.3.8.6\guard_update
Network		
Update	Update Reboot The update	completed successfully
Import	Factory Default	
Settings	Note: Click on 'Select Source' button to select source folder. The "Guard" send the files in the selected folder exactly in the Click 'Update' to start update the files. Click 'Reboot' to reboot the system.	structure in which they are arranged.
About	Click 'Factory Defualt' to set factory default setting	
	Board IP: 192.168.1.51	Count: 1 The application and country

Figure 5 : Neptune Guard showing the ANT-177x rebooting



📽 Neptune Guard		- 🗆 X
CA	Neptune Guard	
Board	Update Board: PC Source Folder: pOnGiversion_2.3.8.6iversion_2.3.8.6iguard_update	te
Network		
Update	Update Reboot The update completed succ	cessfully
Import	Factory Default	
Settings	Note: Click on 'Select Source' button to select source folder. The "Guard" send the files in the selected folder exactly in the structure in which the Click 'Update' to start update the files.	hey are arranged.
About	Click Rebool to rebool the system. Click Factory Defualt' to set factory default setting	
	Board 1P: 192.168.1.51 Cour	nt: 1