

TECHNICAL NOTES



Article Number - 00067-2022

Date - 3rd March 2022

Article applies to - 4GConnect, 4GConnect Pro and 4GXtream

ISSUE: Updating Firmware on our 4G Products

Our 4G Products have been very popular and reliable since we first launched them back in 2018. Since then, there have been a few small, non-critical, firmware updates, but with the announcement of AT&T turning off their 3G service in the US, we have now had to release our first major firmware update, that we recommend all users update to. Please use the procedure in this Tech Note to update your 4GConnect or 4GXtream product, if you have older firmware than V07.01.02.

We recommend using a laptop for this update procedure, as the saving and retrieving of downloaded files is much easier on Windows/Mac/LINUX computers, than on iOS and Android devices.

Update Procedure for 4GConnects (Pro) with firmware V01.14.05 or less

To update the firmware, ensure your laptop is wirelessly connected to the 4GConnect (Pro), open your web browser (Chrome, Edge, Firefox, Safari, etc.) and go to either http://4gconnect or http://192.168.1.1

The 4GConnect login page will be displayed and to login the default username and password are....

Username = admin

Password = 4GConnect

→ C A Not secure 4gconnect/cgi-b	in/luci	🖻 🛧
VACHT 4G Connect		
Authorization Required		
Please enter your username and password.		
Username admin		
Password		
Login		
Mobile information		
Mobile information		
Mobile information	3	
Mobile information attl Mobile Operator Connection type	3 4G (LTE)	
Mobile information Mobile Operator Connection type Signal strength	3 4G (LTE) -61 dBm	

Once logged in go to the System>Firmware menu option...

4GConnect - Overview - Web UI	× +				v –
C C A Not see	cure 4gconnect/cgi-bin/l	uci			• 🖻 🕸
YACHT 4G Conne	ct Status - Ne	etwork - Services	System -		Logout 🕒
Profile in use: default			Setup Wizard	FW ver.:	4GConnect_R_GPL_01.14.05
Overview			Profiles Administration		
System 🗈 🖻		12.5% CPU load	User Scripts Firmware		-65 dBm 📶
Router uptime	0d 0h 18m 44s(since 202	22-03-04, 09:28:48)	Licenses	0d 0h 16m 36s(since	2022-03-04, 09:30:56)
Local device time	2022-03-04, 09:47:32		Manager	registered (home); 3;	4G (LTE)
Memory usage	RAM: 42% used	FLASH: 17% used	Reboot	SIM (Ready)	
Firmware version	4GConnect_R_GPL_01.	14.05	Bytes received/sent *	1.3 KB / 9.3 KB	
Wireless 🗈 🖻		ON 🤝	WAN DI D		Wired 🕎
SSID	Generation 44 AGC 44 APC 44 AP		IP address	192.168.42.122	Private IP address
Mode	1- AP; 4 CH (2.427 GHz)		WAN failover status	Failover link is enable	ed
Local Network			Remote Managem	ent System 🖾 🔤	ON 🕥

The Firmware screen will now be displayed as shown below, and you should ensure the "Keep All Settings" tick box is ticked and then click on the down arrow next to the "Upgrade from Server" button and select "Upgrade from File". Now a "Choose File" button will appear, which you should click and then browse through your laptop's folders to find the latest Firmware Update file that you have got from our website....

https://digitalyachtamerica.com/product-firmware/

The file that you need to select must have a <u>.BIN</u> file extension, which you will need to have extracted from the compressed ZIP file we store on our Download server.

4GConnect - Firmwar	re - Web UI 🗙 🕂						\sim	-		×
\leftrightarrow \Rightarrow C \triangle	A Not secure 4gcon	nect/cgi-bin/luci,	/;stok=6581cc3f129c3(087dee2	bc2558f6cb8e/admin/system/flash	ops		€ ☆	6	:
YACHT 4G	Connect St	atus 🗸 Netv	vork - Services	- Sy	stem -		Logo	but⊫		Â
Profile in use	: default					FW ver.: 4GConnect_R_C	GPL_01	.14.05		
Firmware	FOTA									
Firmwar	e									
Current F	irmware Information	i i			Firmware Available On Serve	ər				
Firmware v	ersion	4GConnect_R	_GPL_01.14.05		Firmware version	No update available.				
Firmware b	uild date	2022-03-02, 09):41:00			Check for	new Fl	N C		
Kernel vers	ion	3.18.44				Concertor	neuri			
Bootloader	version	2.0.1								
Firmware	Upgrade Settings									
Keep all s	settings	✓								
Upgrade fro	om file 🗸 Firm	ware image file	Choose file 4GConne	ect07.	01.02.bin					
Upgrade	9									-

Once the correct file is selected, click the Upgrade button to start the update process. It is very important that you do not remove power from the 4GConnect or the laptop whilst the update is in progress, otherwise the 4GConnect may end up being "bricked" and will have to be returned to us for repair.

The 4GConnect will do a few checks to make sure it has enough memory to receive the update, that it is the right type of firmware update file and that it has not been corrupted. Then this final confirmation screen will appear...



If everything is OK and you are ready to do the update, click the "Upgrade" button. The 4GConnect will now start the upgrade process and this status page will be shown.



This page will continue to count up to 100% but if you are updating via Wi-Fi you will probably be disconnected as the 4GConnect reboots after the update and you will need to reconnect and refresh the webpage. All of your settings, passwords, etc. should be the same as you previously had set.

Update Procedure for 4GXtreams (and 4GConnects with V07.01.01 or later)

To update the firmware, ensure your laptop is wirelessly connected to the 4GXtream, open your web browser (Chrome, Edge, Firefox, Safari, etc.) and go to either <u>http://4gxtream</u> or <u>http://192.168.1.1</u>

The 4GXtream login page will be displayed and to login the default username and password are....

Username = admin

Password = 4GXtream

Digital Yacht - 4GXtream	× +		~	-		×
\leftarrow \rightarrow C \triangle	Not secure 192.168.1.1/#/login		07	Ê	☆ 😡) :
	4GXtream Network AUTHORIZATION REQUIRED Please enter your username and password	Username admin Password 4GXtream (S) LOG IN				

Once logged in go to the System>Firmware menu option...

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\leftrightarrow	C 1 A Not secure 192.168	.1.1/#/system/admin/admin				07	₽ ☆		:
		Giana 4GX tream Netwo	ork	MODE USER BASIC ADMIN	FW VERSION 4GXTREAM_R_GPL_	07.01.02	2 LOG	iout G	•
	<u>SYSTEM</u>	✓ GENERAL SETTINGS							
	ADMINISTRATION general	Configuration	Mode Basic		~				
NETWORK	ACCESS CONTROL RECIPIENTS CERTIFICATES TROUBLESHOOT	Device	name 4GXtream						
SERVICES	FIRMWARE UPDATE FIRMWARE SYSTEM USERS	✓ RESET BUTTON CONFIGURA	TION						
SYSTEM	BACKUP PROFILES	ACTION	MIN TIME	MAX	TIME				
	CUSTOM SCRIPTS SPEED TEST	Reboot	0	5) off o)n	-
•									•

The Firmware screen will now be displayed as shown below, and you should ensure the "Keep All Settings" switch is ON and the "Update From" drop down has File selected. Now click the "Browse" button to

navigate through your laptop's folders to find the latest Firmware Update file that you have got from our website....

https://digitalyachtamerica.com/product-firmware/

The file that you need to select must have a <u>.BIN</u> file extension, which you will need to have extracted from the compressed ZIP file we store on our Download server.

Dig Dig	gital Yacht - 4GXtream 🗙 🕂		✓ - □	×
$\leftarrow \rightarrow$	C 1 A Not secure 192.168	.1.1/#/system/flashops/general	⊶ 🖻 ☆ 🔞	:
		Ganation 4GXtream Network	Mode user fw version Basic admin 4gxtream_r_gpl_07.01.02 logout ⊡→	_
∧√√ status	<u>SYSTEM</u>	✓ CURRENT FIRMWARE INFORMATION	✓ FIRMWARE AVAILABLE ON SERVER	
	ADMINISTRATION	Firmware version 4GXtream_R_GPL_07.01.02	Firmware version Newest version installed on the device	
	FIRMWARE	Firmware build date 2022-02-28 22:03:0		
NETWORK UPDATE FIRMWARE	Modem firmware version EG06ELAR03A05M4G			
	SYSTEM USERS	Kernel version 5.4.147		
	✓ FLASH NEW FIRMWARE IMAGE			
	SPEED TEST	Update from File	~	
SETUP WIZARD REBOOT		Keep settings off on		
		Image BROWSE		-

Once the correct file is selected, click the Upgrade button to start the update process. It is very important that you do not remove power from the 4GXtream or the laptop whilst the update is in progress, otherwise the 4GXtream may end up being "bricked" and will have to be returned to us for repair.

The 4GXtream will do a few checks to make sure it has enough memory to receive the update, that it is the right type of firmware update file and that it has not been corrupted. Then this final confirmation screen will appear...



If everything is OK and you are ready to do the update, click the "Upgrade" button. The 4GXtream will now start the upgrade process and this status page will be shown.



This page will continue to show the "Upgrading" icon (takes about 45-60 seconds) while it is updating itself but if you are updating via Wi-Fi you will probably be disconnected as the 4GXtream reboots after the update and you will need to reconnect and refresh the webpage. All of your settings, passwords, etc. should be the same as you previously had set.