

TECHNICAL NOTES



Article Number - 00028-2011

Date - 20th December 2011

Article applies to - WL510 long range Wi-Fi Adaptor

ISSUE: Upgrading a WL510 to the latest Firmware

The WL510 Long Range Wi-Fi Adaptor has recently been upgraded with a new Version 2.00 Firmware that gives an improved User Interface making it much quicker and easier to scan for wireless networks, select one and then connect to it. It is recommended that all existing WL510 owners update to this new firmware when convenient. The latest Firmware and new Quick Start Manual can be downloaded from the Support section of our website <u>www.digitalyacht.co.uk</u>

This Tech Note, explains how to update the WL510 to this latest firmware and will also be applicable for any other future Firmware Updates that Digital Yacht release.

SOLUTION:

Assuming that you have a network connection between your PC and the WL510, from your web browser, type in 192.168.10.20 in the address bar and press the return (enter) key.

You should see the WL510 login page as shown below...



Log in as normal and then click on the "*System*" tab to display the following page...

🔊 DY-WL510: [DY-WL510] - S) × 😥	
← → C 🔺 🔇 192.168.10.20/system.cgi	k 🙇 🔧
WL510 Wifi Access System	
MAIN SIAIUS WIRELESS NETWURK AUVANI Device	Date Settings
Device Name: DY-W/510	Timezone: (GMT) Western Europe T
Interface Language: English	Enable Startup Date:
	Startup Date:
System Accounts	
Change Password: 🔍 Enable Read-Only Account: 📄	E
Miscellaneous	Location
Enable Reset Button: 👽	Latitude:
	Longitude:
	Change
Configuration Management	
Backup Configuration:	iload
Upload Configuration: Choose	se File No file chosen Upload
Device Maintenance	

Then scroll down to the bottom of the "*System*" page until you see the "*Update*..." button shown below.

DY-WL510: [DY-WL510] - S1 ×		
← → C ♠ © 192.168.10	20/system.cgi	ନ୍ଦ୍ର 🕹 🔧
	Startup Date:	
System Accounts		
Administrator Username:	wi510	U
Enable Read-Uniy Account:		II
Miscellaneous	Location	II
Enable Reset Button:	V Latitude:	
	Longitude:	
		Change
Configuration Management		E
	Backup Configuration: Download	
	Upload Configuration: Browse Upload	
Device Maintenance		
	Firmware Version: V1.00	
	Build Number: 0001	
	Update Reboot Reset to Defaults Support Info	
	© Copyright 2011 Digital Yacht Ltd.	
		-

Click the "*Update*..." button and you will see the following page appear.

C Digital Yacht: [DY-WL510] - Firmware upload - Windows Internet Explorer		x
http://192.168.10.20/upgrade.cgi		
FIRMWARE UPLOAD Current Firmware: XM.v5.3.sdk Firmware File: Browse Upload		*
		Ŧ
Done Son Son Con Son Son Con Son Son Son Son Son Son Son Son Son S	r 🔍 100%	•

Click the "Browse" button and then select the Latest WL510 Firmware file (it will have a .BIN file extension) from whichever folder you downloaded and unzipped it to. Click the "Open" button and when you are returned to the previous page, click the "Upload" button.

The Firmware Upload will now start and during this process, it is very important that you do not remove power or the network cable from the WL510 or your PC.

🥖 Digital Yacht: [DY-WL5	i10] - Firmware Update - Windows Internet Explorer		- 0	X
http://192.168.10.20/f	wflash.cgi			
	Firmware Update Firmware is being updated. This operation takes several minutes to complete - meanwhile DO NOT POWEROFF the device! Close this window			*
Done	Internet Protected Mode: On	- @ -	🔍 100%	•

Once the process has completed, the WL510 will reboot, which is indicated by the Windows Network icon changing from connected to disconnected and then back to connected again.

You should now be able to enter 192.168.10.20 in to your browser again and you will see the new simplified Login screen (just a single Password box) which proves that the update has worked correctly.



You should now download and consult the new WL510 Quick Start Guide for more information on the new simplified User Interface.

For future Firmware Upgrades, the process is even easier and you can access the "Update..." button from the new "Status" tab, as shown below...

🔊 DY-WL510: [DY-WL510]	- St × 🕀		3
← → C 🖬 🔇 193	2.168.10.20/index.cgi	龄 💩 👻	2
WL510 Wifi Access Syst MAIN STATUS Status	em		
Device Name:	DY-WL510	AP MAC: Not Associated	
Network Mode:	Router	Signal Strength: -	
Wireless Mode:	Station	Noise Floor: -	
SSID:	digitalyacht	Transmit CCQ: -	
Security:	none	TX/RX Rate: - / -	Ε
Uptime:	00:03:54	AirMax: -	
Date:	2011-12-15 18:28:51		
Channel/Frequency:	5 / 2432 MHz	Firmware Version: v2.00	
Channel Width:	Auto 20 / 40 MHz	Build Number: 0001	
ACK/Distance:	35 / 0.7 miles (1.2 km)	Update Reboot Reset to Defaults	
TX/RX Chains:	1X1		
WLAN MAC:	00:27:22:2A:E1:9C	Advanced	
LAN MAC:	00:27:22:2B:E1:9C		
LAN:	100Mbps-Full		
Monitor			Ш
Thro	ughput AP Information DHCP Clien	it ARP Table Routes Port Forward DHCP Leases Log	
	LAN	WLAN	
14 12 RX: 6.95kbp 10 TX: 11.3kbp	S	00 90 90 70 TC 0bps 80 80 80 80 80 80 80 80 80 80	Ŧ