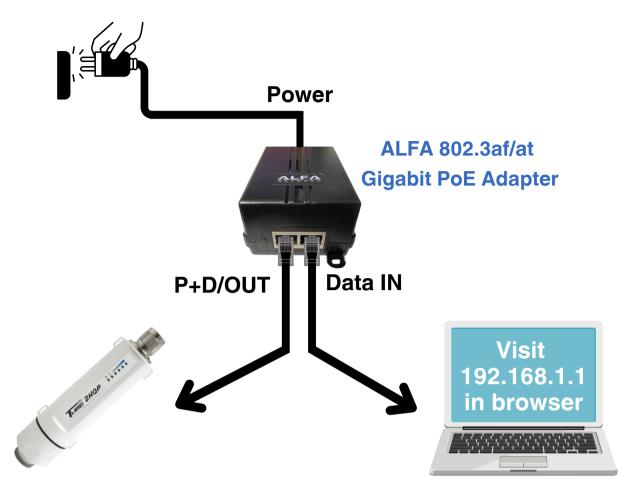


ALFA Tube 2HQP 2.4 GHz Long Distance Outdoor Wi-Fi PoE AP/CPE IP68



# **Router Mode - Quick Guide**



**ALFA Tube-2HQP** 

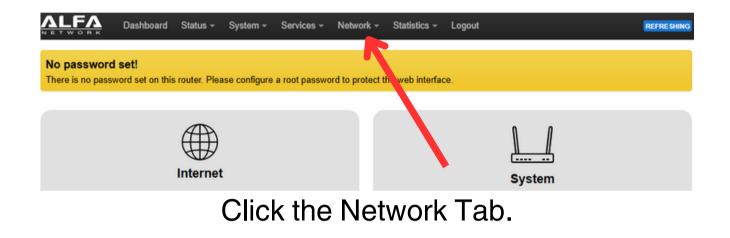
Laptop / Desktop Computer

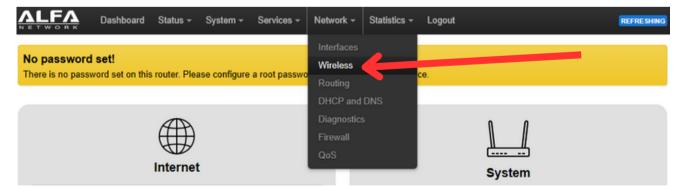
## Tube-2HQP Configuration Hardware Setup

- Using a PoE compatible ethernet cables connect the Tube-2HQP to the P+D/OUT port and a Computer to the Data IN port on the on the PoE Adapter.
- Connect the ALFA 802.3af/at Gigabit PoE Adapter to a power source.
- On the computer that is connected to the PoE adapter, open a browser and type 192.168.1.1 into the address bar.

Username root Password				
Password				
			]	
	Login	K		

There is no password set, so just click Login.



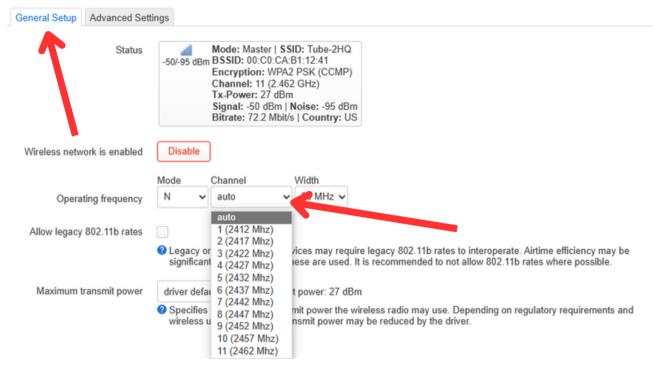


Click the Wireless option within the dropdown menu.

nere is no pas	rd set! sword set on this router.	Please configure a root password to pr	otect the web interfac	9.	
ireless O	verview				
👳 rad	100	mm Atheros QCA9530 802.11b : 11 (2.462 GHz)   Bitrate: 72.2 Mbit/s	gn		Restart Scan Add
dia -40/-9	BSSID: 0	be-2HQ   Mode: Master 10:C0:CA:B1:12:41   Encryption: WPA	2 PSK (CCMP)		Disable Edit Remove
etwork	MAC address	Host	Signal / Noise	RX Rate / TX Rate	

In the Wireless Overview section click the Edit button.

#### **Device Configuration**



- In the Device Configuration section select the General Setup Tab.
- Change the Operating Frequency Channel to Auto or your desired frequency.

Device Configurati	on
General Setup Advance	d Settings
Country C	ode US - United States
Coverage cell der	sity Disabled V
	Onfigures data rates based on the coverage cell density. Normal configures basic rates to 6, 12, 24 Mbps if legacy 802.11b rates are not used else to 5.5, 11 Mbps. High configures basic rates to 12, 24 Mbps if legacy 802.11b rates are not used else to the 11 Mbps rate. Very High configures 24 Mbps as the basic rate. Supported rates lower than the minimum basic rate are not offered.
Distance Optimiza	tion auto
	ODistance to farthest network member in meters.
Fragmentation Thres	off
RTS/CTS Thres	off
Force 40MHz m	ode
	Always use 40MHz channels even if the secondary channel overlaps. Using this option does not comply with IEEE 802.11n-2009!
Beacon Inte	rval 100

- In the Device Configuration section select the Advanced Settings Tab.
- Change the Country Code to the US United States or the Country in which you are operating from.

Interface	Configuration
-----------	---------------

General Setup	Wireless Security	MAC-Filter	Advanced Settings			
1	Mode	Access Point	~	←		
	ESSID	Tube-2HQ			-	
		Ian: 55 Choose the ne network.	twork(s) you want to	attach to this wireless inter	face or fill out the custon	n field to define a new
	Hide <u>ESSID</u>	Where the ES	SID is hidden, clients	may fail to roam and airtim	e efficiency may be sign	ificantly reduced.
		Where Wi-Fi M	fultimedia (WMM) Mo	de QoS is disabled, clients	may be limited to 802.1	1a/802.11g rates.

- In the Interface Configuration section select the General Setup Tab.
- Change the Mode to Access Point.
- Change the ESSID to your preferred Wi-Fi name.
- Select "lan" as the Network.

#### Interface Configuration

General Setup	Wireless Security	MAC-Filter	Advanced Settings				
1	Encryption	WPA2-PSK (stro	ng security) 🗸			-	
	Cipher	auto	~				
	Key	password	$\leftarrow$				
802.11r F	Fast Transition	Enables fast roa	aming among acces	s points that belong t	to the same Mobility D	omain	
802.11w Manag	Protection	Disabled Note: Some wir	► eless drivers do not	fully support 802.11v	v. E.g. mwlwifi may ha	ive problems	
	y reinstallation	are used to inst	all keys. This worka		teroperability issues a	ission of EAPOL-Key fram Ind reduced robustness of	
Enable WP requires WPA(2	PS pushbutton, 2)-PSK/WPA3- SAE						

- In the Interface Configuration section select the Wireless Security Tab.
- Change the Encryption to your preferred type (We suggest WPA2-PSK as it compatible to help prevent compatibility issues).
- Create a Key(Password).

#### Interface Configuration

Vireless Security	MAC-Filter	Advanced Settings			
Mode A	Access Point	~			
ESSID	ube-2HQ				
		•			
Hide ESSID	network.				
0	Where Wi-Fi M	Aultimedia (WMM) Mo	de QoS is disabled, cli	ents may be limited to 802	.11a/802.11g rates.
					Dismiss Save
he Inte	erfac	e Confi	guratior	n section	select
	ESSID T Network I Hide ESSID ( WMM Mode ( ( )	Mode Access Point ESSID Tube-2HQ Network Ian: Choose the ne network. Hide ESSID Where the ES WMM Mode Where Wi-Fi M	Mode Access Point ESSID Tube-2HQ Network Ian: Choose the network(s) you want to network. Hide ESSID Where the ESSID is hidden, clients WMM Mode Where Wi-Fi Multimedia (WMM) Mo	Mode Access Point   ESSID Tube-2HQ   Network Ian: :: •   • O Choose the network(s) you want to attach to this wireless in network.   Hide ESSID   • Where the ESSID is hidden, clients may fail to roam and ai   WMM Mode •   • Where Wi-Fi Multimedia (WMM) Mode QoS is disabled, clients	Mode Access Point   ESSID Tube-2HQ   Network Ian:    @ Choose the network(s) you want to attach to this wireless interface or fill out the custor network.   Hide ESSID   @ Where the ESSID is hidden, clients may fail to roam and airtime efficiency may be signed.

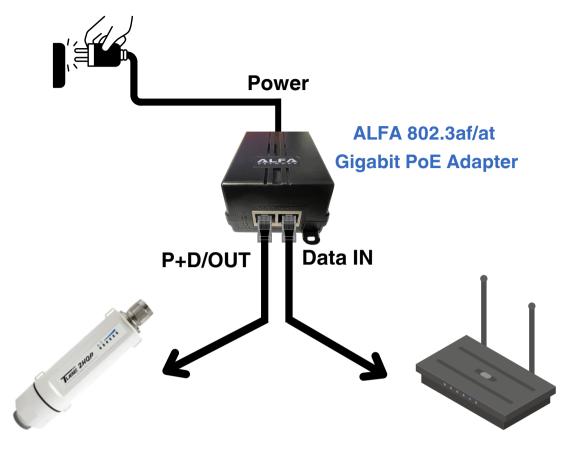
### General Setup, then click Save.

lo passwor here is no pass ireless Ov	sword set on this rou	ter. Please configure	e a root password to protec	t the web interfac	e.	
	adio0		ros QCA9530 802.11k GHz)   Bitrate: 72.2 Mbit/s	gn		Restart Scan Add
-43/	-95 dBm	SID: Tube-2HQ   Monterface has 1 pendi				Disable Edit Remove
	Stations MAC address	Host		Signal / Noise	RX Rate / TX Rate	
Master "Tube-2HQ" (Wlan0)		LAPTOP-QPN 31 (192.168.1.137	or trooman		RX Rate / TX Rate 65.0 Mbit/s, 20 MHz 72.2 Mbit/s, 20 MHz Short GI	z, MCS 7

	Dashboard Status <del>-</del> Syster	n - Services - N	letwork - Statistics -	Logout	<b>REFRESHING</b>
No password There is no passw	set! word set on this router. Please conf	igure a root password	to protect the web interface.		
Wireless Ove	erview				
🙊 radio	0 Qualcomm Athero Device is not active	s QCA9530 802.1	1bgn	Restart	Scan Add
disable	ed SSID: Tube-2HQ   Moo Wireless is disabled	le: Master		Enable	Edit Remove
Associated S	Stations				
Network	MAC address	Host	Signal / Noise	RX Rate / TX Rate	
		No inf	ormation available		
				Save & Apply +	Save Reset

### Click Enable to start broadcasting the SSID.

Continue to the Post-Configuration hardware setup.



**ALFA Tube-2HQP** 

Router/Switch/Modem with Network Access

# Tube-2HQP Post-Configuration Hardware Setup

- Using a PoE compatible ethernet cables connect the Tube-2HQP to the P+D/OUT port and an Ethernet port with network access(Router/Switch/Modem/Wall Jack) to the Data IN port on the on the PoE Adapter.
- Connect the ALFA 802.3af/at Gigabit PoE Adapter to a power source.
- After a few moments the SSID should start broadcasting allowing you to connect devices to the network.