

Before Installation and Configuration

1. H820Q router has different version. Study your router version before installation.
2. For GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA/HSPA+/4G LTE version, please get a SIM card with data business.
3. For CDMA2000 EVDO/CDMA1x version, please get a UIM card with data business or inform us before order if the network uses non-ruim (nam-flashing).
4. Make sure the sim card or uim card is with enough data business and balance.
5. Make sure the signal is good enough where you test or install the router. Weak signal will make the router no work. If you find your signal strength is not good, please contact us for high gain antenna.
6. Different countries and carriers use different network band and frequency. E-Lins packs units with free world-wide-use antenna. It can work, but the data speed or signal may not be good at your sites. Please buy dedicated high gain antenna from your local suppliers or contact E-Lins to OEM/ODM the antenna.

Notes: This quick start is for GSM/GPRS/EDGE/HSDPA/HSUPA/HSPA+/TD-SCDMA/4G LTE network only. For EVDO network or CDMA network, please refer to manual or contact us freely.

Step 1) Confirm the sim card if can work with other 2G/3G/4G router or modem. If the sim card can not work, the router will not work correctly.

Step 2) Connect the H820Q Router LAN port to a PC via RJ45 cable. Make the PC automatically to get the IP, Submask, DNS.

The PC will be get a IP of 192.168.1.xxx.

Step 3) At PC web browser, please type: <http://192.168.1.1>

Username: admin Password: admin

Step 4) System – Setup Wizard

4.1) Step 1 - General

Step - General

First, let's change your router password from the default one.

Password settings

New password

Confirm new password

System Settings

Current system time Sun May 29 12:43:34 2016

Timezone

Hostname

Language

- Set the Web Login password;
- Sync with system time with clicking "Sync with browser", or select the "Timezone";
- Click "Save & Apply" button for next step;

4.2) Step 2 - Mobile

Step 1 - General

Step 2 - Mobile

Step 3 - LAN

Step 4 - WiFi

Mobile Configuration

Mobile Configuration

SIM 1

Enable

Mobile connection

APN

PIN code

Dialing number

Authentication method

Network Type

MTU

Online mode

Skip Wizard

Save & Next

Item	Description
Enable	Check it
Mobile connection	"DHCP mode" or "PPP mode". Normally system will automatically select
PIN code	If the SIM card uses PIN code, please put here. Wrong PIN code makes router no work. If the SIM card doesn't use PIN code, please keep blank here.
Dialing number	Fill in the right parameters. Get this parameter from the Sim Card Provider or Carrier. With experience, most of time, 2G/3G/4G use *99#, and CDMA/EVDO use #777.

APN	Fill in the right parameters. Get this parameter from the Sim Card Provider or Carrier;	
Authentication method	Fill in the right parameters. Get this parameter from the Sim Card Provider or Carrier;	
	None	No more settings
	CHAP	Need set "Username" and "Password"
	PAP	Need set "Username" and "Password"
Dual APN support	<p>Most of SIM cards or Carriers/Operators just use one APN, but some use two APNs. Check this feature to use.</p> <p>Second APN: configure it referring to "APN"; Second Authentication method: configure it referring to "Authentication method";</p>	
Network Type	Select the network you want to use. Normally keep default settings	
Demand	Normally keep default settings. For some models, there is no this option.	
MTU	Normally keep default settings	
Online mode	<p>Keep Alive: dialup automatically while router boot up</p> <p>Schedule: dialup in schedule time. Need set the <i>Start time</i> and <i>Stop time</i>.</p>	

Click "Save & Apply" button for next step;

4.3) Step 3 - LAN

Step 1 - General

Step 2 - Mobile

Step 3 - LAN

Step 4 - WiFi

Step - LAN

Here we will setup the basic settings of a typical LAN configuration. The wizard will cover 2 basic configurations: static IP address LAN and DHCP client.

General Configuration

IP address

Netmask

Enable DHCP

Start

Limit

Lease time

Skip Wizard

Save & Next


Set the router LAN IP parameters. Click "Save & Apply" button for next step;

4.4) Step 4 - WiFi

Step - Wireless

Now let's configure your wireless radio. (Note: if you are currently connecting via wireless and you change parameters, like SSID, encryption, etc. your connection will be dropped and you will have to reconnect with a new set of parameters.)

WiFi Configuration

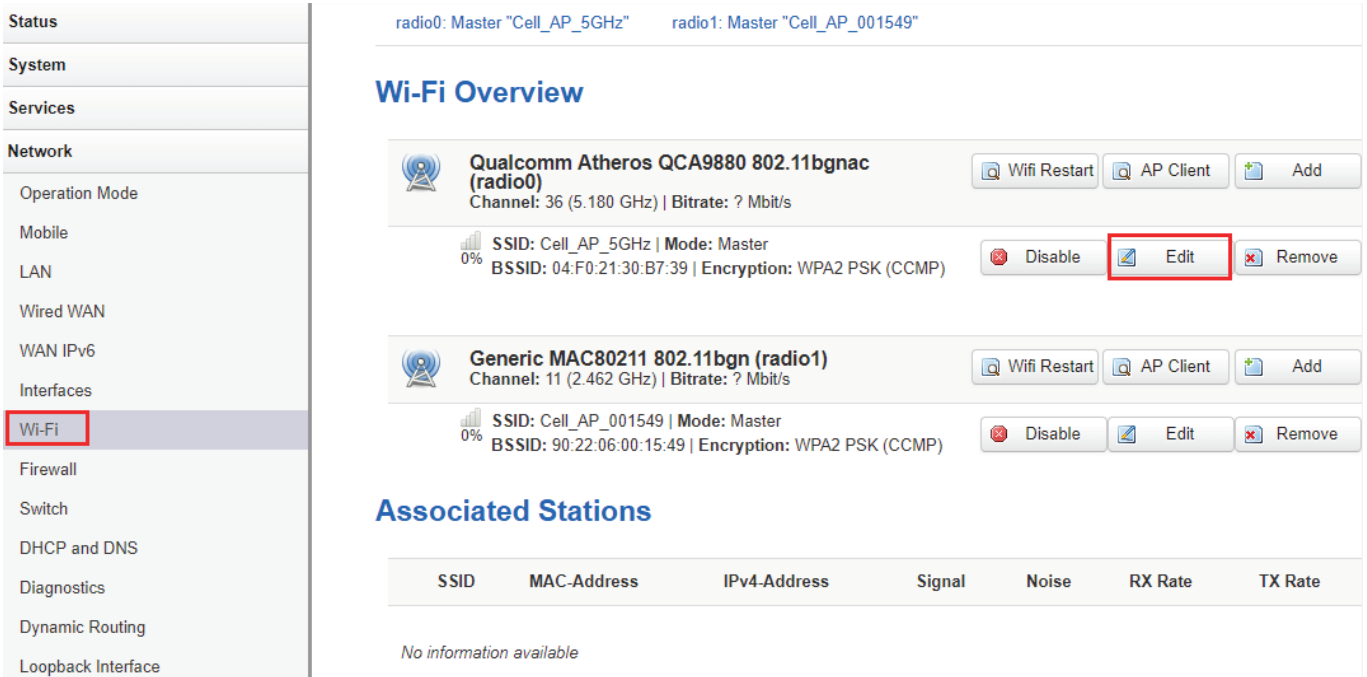
Enable wireless	<input checked="" type="checkbox"/>
SSID	<input type="text" value="Cell_AP_5GHz"/>
Transmit Power	<input type="text" value="23 dBm (199 mW)"/>
Band	<input type="text" value="2.4GHz (802.11g+n)"/>
HT mode (802.11n)	<input type="text" value="disabled"/>
Channel	<input type="text" value="36 (5.180 GHz)"/>
Encryption	<input type="text" value="WPA2-PSK"/>
Cipher	<input type="text" value="auto"/>
Key	<input type="text" value="....."/> 
Country Code	<input type="text" value="US - United States"/>

Skip Wizard

Finish

Notes: for security, it is highly recommend to set "Encryption" for the WiFi Radio.

If your H820Q version is with dual WiFi, please go to Network – WiFi to configure the second WiFi.



radio0: Master "Cell_AP_5GHz" radio1: Master "Cell_AP_001549"

Wi-Fi Overview

Qualcomm Atheros QCA9880 802.11bgnac (radio0)
Channel: 36 (5.180 GHz) | Bitrate: ? Mbit/s

0% SSID: Cell_AP_5GHz | Mode: Master
BSSID: 04:F0:21:30:B7:39 | Encryption: WPA2 PSK (CCMP)

Buttons: Wifi Restart, AP Client, Add, Disable, **Edit**, Remove

Generic MAC80211 802.11bgn (radio1)
Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s

0% SSID: Cell_AP_001549 | Mode: Master
BSSID: 90:22:06:00:15:49 | Encryption: WPA2 PSK (CCMP)

Buttons: Wifi Restart, AP Client, Add, Disable, Edit, Remove

Associated Stations


SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

Step 5) once the router is online, it gets a WAN IP Address and Status Page will show similar info, also the “Cell LED” will light on. And “Cell Signal LED” flash if there is enough signal.

Level	Signal Strength Value	Cell Signal LED Flashing Speed
1	1-4	Flash per 2 seconds
2	5-17	Flash per 1 second
3	18-31	Flash per 0.5 second

5.1) Status – Overview

Mobile 1

Celluar Status	Up
IP Address	10.70.20.35/255.255.255.255
Cell Modem	Ericsson_F5321_HP
IMEI	359166046151839
Sim Status	SIM Ready
Strength	 10 / 31
Selected Network	Automatic
Registered Network	Registered on Home network: "", 2,
Sub Network Type	
Location Area Code	A54D
Cell ID	0D9A76DF

Step 6) In order to keep the router working stably, it's highly recommended to activate the "ICMP Check" feature.

ICMP Check

Enable

Host1 to ping

Host2 to ping

Ping timeout

Max retries

Interval between ping

Restart mobile module

Restart router

Save & Apply

Save

Reset

Notes:

- 1) For router working with best stability, we highly suggest activate and use this feature. With this feature, the Router will automatically detect its working status and fix the problem.
- 2) You can fill in Host1 only, also you can fill in Host1 and Host2 together.

Below list the ICMP checking principle diagram.

