

H690 Quick Start

Warmly Reminding: Before Power-on, please insert the working SIM Card into the router sim slot

Before installation, please confirm the following:

- A. The sim card support data business and has enough balance.
- B. Get the correct APN parameter from the sim card provider or network provider
- C. The site should get enough cellular signal, otherwise the router will not dialup to internet.

1. Connection

Connect the PC to H690 LAN Port

You have two options:

A. Set the PC lan parameters as follows

IP Address: 192.168.0.2

Sub mask: 255.255.255.0

Default gateway: 192.168.0.1

DNS: get your DNS from network provider or set as 192.168.0.1

B. DHCP (preferred)

Setting the PC IP properties, support "Obtain an IP address automatically" and "Obtain DNS server address automatically".

2. Login the router

Open the URL: "http://192.168.0.1", the default user name and password both are "admin"

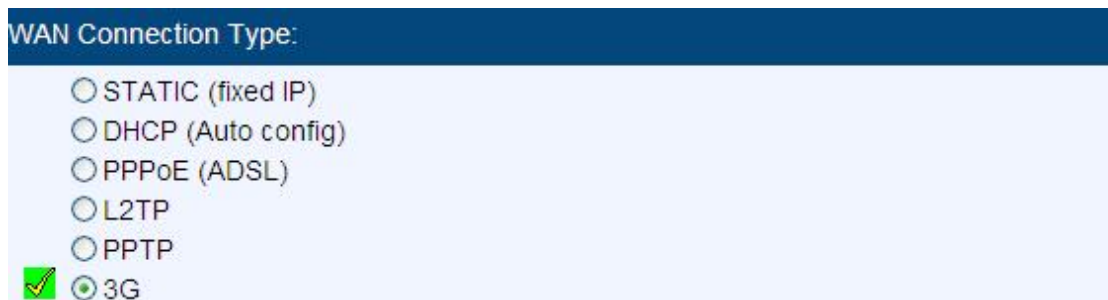


3. Configuration

3.1 Wireless 3G Internet settings

At left panel, click "Internet Settings" --"WAN", then set as follows

Step 1: Select "3G"



Step 2: Select the correct type at "USB 3G modem" option (Please check the mark on the router or package; or contact with the sales from E-Lins)

For example, we see the "USB 3G modem" is "F3307" from the back cover of the router.



Then please select "Ericsson F3307" at "USB 3G modem",

| Boot-up Dial mode | |
|-------------------|----------------|
| USB 3G modem | Ericsson F3307 |

Notes: Wrong type selection will make the router no work.

Dial Setting: select "User Defined", then input the parameters. (Get the value from your network provider for User, Password, Dial Number, APN)

For other parameters, please keep default.

After setting, click "Apply Button" & "Connect Button", then the router will connect to the network. Better re-power the router after you click the "Apply Button".

| Boot-up Dial mode | |
|-------------------|--|
| USB 3G modem | HUAWEI EM770W |
| Connect Status | Off Line Connect |
| Dial Setting | Boot-up Dial mode <input checked="" type="radio"/> Auto <input type="radio"/> Manual Dial Parameter <input type="radio"/> Default <input checked="" type="radio"/> User Defined |
| | |
| User | wap |
| Password | ●●● |
| Dial Number | *98*1# |
| APN | CMNET |
| Authentication | NO AUTH |
| PIN | |
| Keep alive | More >> |

The follow item must be configed with related parameters, which is from your network provider.

User: (input correct. If no, keep blank)

Password: (input correct. If no, keep blank)

Dial number: (input correct)

APN: (input correct)

Authentication: keep as default if no necessary

PIN: keep as default if no necessary

A: Take for example of "China Mobile Telecom", the configuration is as follows.

Username: wap

Password: wap

Dial number: *99***1#

APN: CMNET

B: Take for example of "China Unicom", the configuration is as follows.

Username: ctnet@mycdma.cn

Password: ctnet@mycdma.cn

Dial number: #777

APN: CMNET

Notes: This setting is just for Network Provider China Mobile or China Unicom. Please confirm with your Network Provider for the right local parameters.

If connected to the network, it will show the following:

| WAN Connection Type: | |
|-------------------------------------|--------------------|
| <input type="radio"/> | STATIC (fixed IP) |
| <input type="radio"/> | DHCP (Auto config) |
| <input type="radio"/> | PPPoE (ADSL) |
| <input type="radio"/> | L2TP |
| <input type="radio"/> | PPTP |
| <input checked="" type="checkbox"/> | 3G |

| Boot-up Dial mode | |
|-------------------|--|
| USB 3G modem | PCIE EV888 |
| Connect Status | On Line Disconnect |
| Dial Setting | Boot-up Dial mode <input checked="" type="radio"/> Auto <input type="radio"/> Manual |
| | Dial Parameter <input checked="" type="radio"/> Default <input type="radio"/> User Defined |
| Keep alive | More >> |

| | |
|-------|--------|
| Apply | Cancel |
|-------|--------|

3.2 Keep alive settings

H690 support "Keep live feature". Please set as follows,

| 3G Wireless-N | |
|---|---|
| Internet Settings | |
| Primary | |
| WAN | |
| MAC Clone | |
| VPN Passthrough | |
| Advanced Routing | |
| QoS | |
| Wireless Settings | |
| | |
| Firewall | |
| Administration | |
| Status | |
| Boot-up Dial mode | |
| USB 3G modem | Auto Detect |
| Connect Status | Off Line Connect |
| Dial Setting | Boot-up Dial mode: Keep Alive 5 minutes in Idle status, shut down the connection |
| | Dial Parameter: <input checked="" type="radio"/> Default <input type="radio"/> User Defined |
| Keep alive | More >> |
| Keep alive | |
| <input checked="" type="checkbox"/> LCP | |
| <input checked="" type="checkbox"/> DNS Resolve | www.google.com |
| <input checked="" type="checkbox"/> Ping | Destination IP Address: 74.125.128.113 |
| | <input type="checkbox"/> Using Gate way IP Address |
| <input type="checkbox"/> Heartbeat | String: <input type="text"/> |
| | Destination IP Address: <input type="text"/> |
| | Protocol: UDP Port Number: 9000 |
| Operation Mode | Interval: 30 s |
| | Retry Number: 10 times, All failure lead to redial |

- 1) LCP check, please tick it to enable it.
- 2) DNS Resolve. Here you can fill in a DNS, the H690 will ping this DNS and check if it's through.
- 3) Ping feature. You can fill in a dedicated IP address, or tick "Using Gate way IP address". For the dedicated IP, H690 will ping this PI. For "gateway IP", the H690 will ping your ISP's gateway IP.
- 4) Heartbeat-- you need get a remote server to receive the heartbeat pack from H690 if you need this feature
- 5) Operation mode -- please fill in the one you need.

H690 router will ping the related setting domain name or IP, and it will try to auto redial to network once it detect the link is off.

4. Wireless WiFi Configuration

4.1 At Left Panel, click “Wireless Settings” –“Basic”

Step 1: Turn on Radio and put a Network Name (SSID), and keep other parameters default.

| Wireless Network | |
|-------------------------------|---|
| Radio On/Off | RADIO OFF |
| Network Mode | 11b/g/n mixed mode ▾ |
| Rate | Auto ▾ |
| Network Name(SSID) | WMR3500 |
| Broadcast Network Name (SSID) | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |
| AP Isolation | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| MBSSID AP Isolation | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| BSSID | 00:0C:43:30:52:10 |
| Frequency (Channel) | 2437MHz (Channel 6) ▾ |

4.2 Wireless Security/Encryption Settings

At Left Panel, click “Wireless Settings” –“Security”
 Select the “Security Mode” and input the WEP Key.
 Click “Apply Button” to save

| Select SSID | |
|-------------|-----------|
| SSID choice | 3G Rout ▾ |

| "3G Router" | |
|---------------|--------|
| Security Mode | OPEN ▾ |

| Wire Equivalence Protection (WEP) | | | |
|-----------------------------------|-------------|------------|-------|
| Default Key | | Key 1 ▾ | |
| WEP Keys | WEP Key 1 : | 9999999999 | Hex ▾ |
| | WEP Key 2 : | | Hex ▾ |
| | WEP Key 3 : | | Hex ▾ |
| | WEP Key 4 : | | Hex ▾ |

| Access Policy | |
|--------------------|-----------|
| Policy | Disable ▾ |
| Add a station Mac: | |

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5. Operation Mode Configuration

At left panel, click “Administration”--“Operation Mode”,
 Select “Gateway”, and Enable the “NAT Enabled” , then click “Apply Button” to save

You may configure the operation mode suitable for you environment.

Bridge:
All ethernet and wireless interfaces are bridged into a single bridge interface.

Gateway:
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

Ethernet Converter:
The wireless interface is treated as WAN port, and the ethernet ports are LAN ports.

AP Client:
The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

NAT Enabled Enable

6. Status monitor

At left panel, click "Administration"-- "Status"

You will check the status of the router if it's online.


If not online, it will show the following similar picture.

Access Point Status

Let's take a look at the status of Ralink SoC Platform.

| System Info | |
|------------------------------|-------------------------|
| SDK Version | 3.3.0.0 (Mar 5 2010) |
| System Up Time | 1 hour, 2 mins, 40 secs |
| System Platform | RT3052 embedded switch |
| Operation Mode | Gateway Mode |
| Internet Configurations | |
| Connected Type | 3G |
| WAN IP Address | |
| Subnet Mask | |
| Default Gateway | |
| Primary Domain Name Server | |
| Secondary Domain Name Server | |

If it's online, it will show the following similar picture. It gets *WAN IP address* from the ISP. And the *3G Led* will keep on.

| 3G Wireless-N | | Let's take a look at the status of router. | |
|--------------------------|------------------|--|--|
| Internet Settings | Primary | System Info | |
| | WAN | firmware version | ver 4.13 |
| | MAC Clone | hardware version | ver 1.1 |
| | VPN Passthrough | System Up Time | 26 mins, 48 secs |
| | Advanced Routing | Internet Configurations | |
| | QoS | Connected Type | 3G |
| Wireless Settings | | 3G modem type | Sierra MC8785 |
| DHCP Server | | connect status | Connected |
| Firewall | | Signal strength | 17  |
| Administration | | WAN IP Address | 172.17.13.241 |
| | | Subnet Mask | 255.255.255.255 |
| | | Default Gateway | 10.64.64.64 |
| | | Primary Domain Name Server | 210.21.196.6 |
| | | Secondary Domain Name Server | 221.5.88.88 |
| | | MAC Address | 00:77:E5:0C:78:F2 |
| | Status | Local Network | |
| | | Local IP Address | 192.168.0.1 |
| | | Local Netmask | 255.255.255.0 |
| | | MAC Address | 00:77:E5:0C:78:F0 |