

Before Installation and Configuration

1. H685 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 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 H685 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 192.168.8.xxx.

Step 3) At PC IE browser, please type: <http://192.168.8.1>

Username: admin Password: admin

Step 4) Internet Settings – WAN – Cell Modem

Notes:

- 1) If you don't replace any cellular module or not do the "Load Default to factory", please skip this step and jump to Step 5.
- 2) Please be patient that the router will take some more time to dialup online for first configuration,

At "Cell Modem", please select "AUTO_DETECT", and click "Apply" button. The router will automatically detect the module modem.

Notes: we highly suggest that reboot the router (power off and re-power on) after we select "AUTO_DETECT".

WAN Connection Type: Cell Network

Cell Mode	
Cell Modem	AUTO_DETECT
Modem Description	HUAWEI CDMA 3G modem
Network Type	AUTO
Online Mode	Keep Alive
Parameter Groups	CDMA View Delete
	Advance Parameter Groups
	Advance Cell Options

MAC Clone	
Enabled	Disable

Apply Cancel

Step 5) Internet Settings – WAN – APN configuration

WAN Connection Type: Cell Network

Cell Mode	
Cell Modem	Ericsson_F3607GW_IBM
Modem Description	Ericsson WCDMA 3G modem for IBM
Network Type	AUTO
Online Mode	Keep Alive
Parameter Groups	WCDMA View Delete
	Advance Parameter Groups
	Advance Cell Options

MAC Clone	
Enabled	Disable

Click “Advance Parameter Groups” button.

Cell Modem Parameters Groups	
Parameters Groups Name	WCDMA_test_E-Lins
Dialup	*99#
APN	3gnet
User	wap
Password	wap
Command	
Auth Type	AUTO
Pin Code	
Local IP	
MTU	
Note:	If change this parameters groups, please press Add/Edit button first!
	<input type="button" value="Advance Parameter Groups"/> <input type="button" value="Add/Edit"/> <input type="button" value="Advance Cell Options"/>

Fill in the related parameters. **And DO NOT FORGET TO CLICK "Add/Edit" button.**

Parameters Groups Name: you can fill in the name freely. But keep No Space between characters.

Parameters Groups Name	WCDMA_test_E-Lins	Right name
Parameters Groups Name	WCDMA_test E-Lins	Wrong Name
Parameters Groups Name	WCDMA test E-Lins	Wrong Name

Dialup: fill in the related parameters. Get this parameter from the Sim Card Provider or Carrier;

APN: fill in the related parameters. Get this parameter from the Sim Card Provider or Carrier;

User: fill in the related parameters. Get this parameter from the Sim Card Provider or Carrier.

Notes: If your SIM card has no user name, please input out default value, otherwise the router may not dialup. Our default value for GSM/WCDMA/LTE is "wap", and for CDMA/EVDO is "card".

Password: fill in the related parameters. Get this parameter from the Sim Card Provider or Carrier.


Notes: If your SIM card has no user name, please input out default value, otherwise the router may not dialup. Our default value for GSM/WCDMA/LTE is "wap", and for CDMA/EVDO is "card".

Step 6) Click “Apply” button or Re-power the router to reboot. Then H685 router will dialup to be online.

Once it's online, the CELL LED will light on.

Notes: sometimes the router cannot dialup after the APN configuration, please power off the router, and re-power on it. Because some radio modules need reboot after the initial APN configuration.

Step 7) Once H685 router is online, it gets a WAN IP Address and Status Page will show similar info.

Series	H820
SN	086412090008
Software Version	2.2.1 (Sep 19 2012)
Hardware Version	1.0.0
System Up Time	36 min
Operation Mode	Gateway Mode
Cell Network Info	
Cell Modem	Ericsson_F3607GW_IBM
IMEI/ESN	356398030078636
Sim Status	SIM ready
Selected Network	AUTO
Registered Network	Registered on Home network: "China Mobile",0
Sub Network Type	EGPRS
Signal	21 
Cell Status	UP
Internet Configurations	
Connected Type	CELL
WAN IP Address	10.89.105.56
Subnet Mask	255.255.255.255
Default Gateway	10.64.64.64

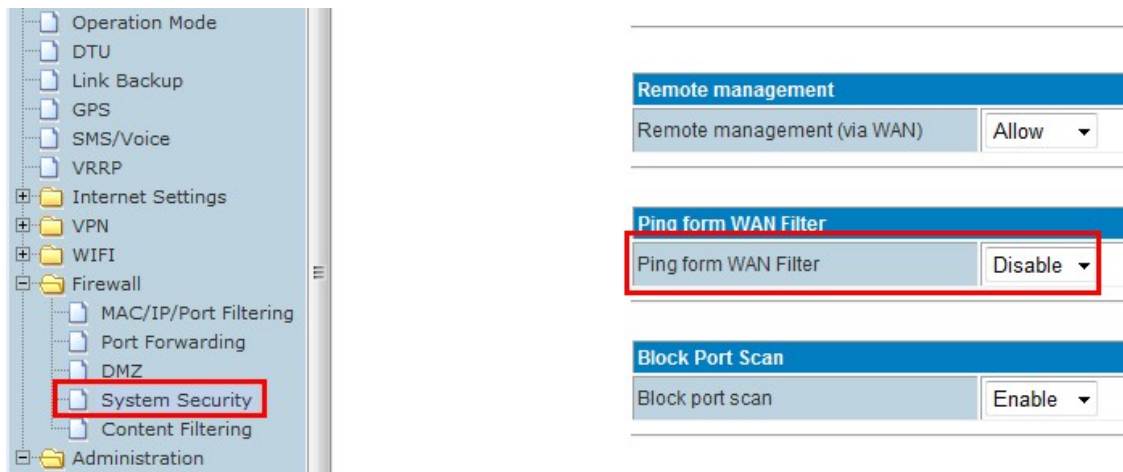
Step8) Activate the “Cell ICMP Check” feature

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) Please disable the “Ping from WAN Filter” if use ICMP check feature, otherwise it cannot work.



ICMP check and Reboot Settings	
Active	<input checked="" type="checkbox"/>
Check method	www.google.com <input type="button" value="Host/IP check"/>
	112.134.33.8 <input type="button" value="Host/IP check"/>
Check interval time (sec)	60 (60-86400)
Check Count	3 (3-1000)
Reboot Count Before Sleep	3 (2-50)
Sleep Time (min)	5 (0-43200)
Comment: It is only used for Cell Keep_Alive and On_Time mode! if you active link_backup you mask set the interval bigger the 3 min	
<input type="button" value="Apply"/>	

- **Active:** tick it to enable ICMP check feature
- **Check method:** fill in checking domain name or IP. Click *HOST/IP check* button to verify before using it.
- **Check interval time (sec):** set the interval time of every check
- **Check Count:** set the checking count number
- **Reboot Count Before Sleep:** H685 Router will sleep to stop checking after failed with set times.
- **Sleep Time (min):** H685 Router sleep timing before resume check.

Example with above picture:

H685 Router check "www.google.com" and "112.134.33.8", it will check 3 times. After the previous check, it will do next check after 60 seconds. Totally it will check 3 times. If 3 times all failed, H685 Router will reboot. If reboots 3 times continuously, H685 Router goes to sleep to stop checking. The sleep time is 5 minutes. After 5 minutes, H685 Router resumes to cycle the checking.