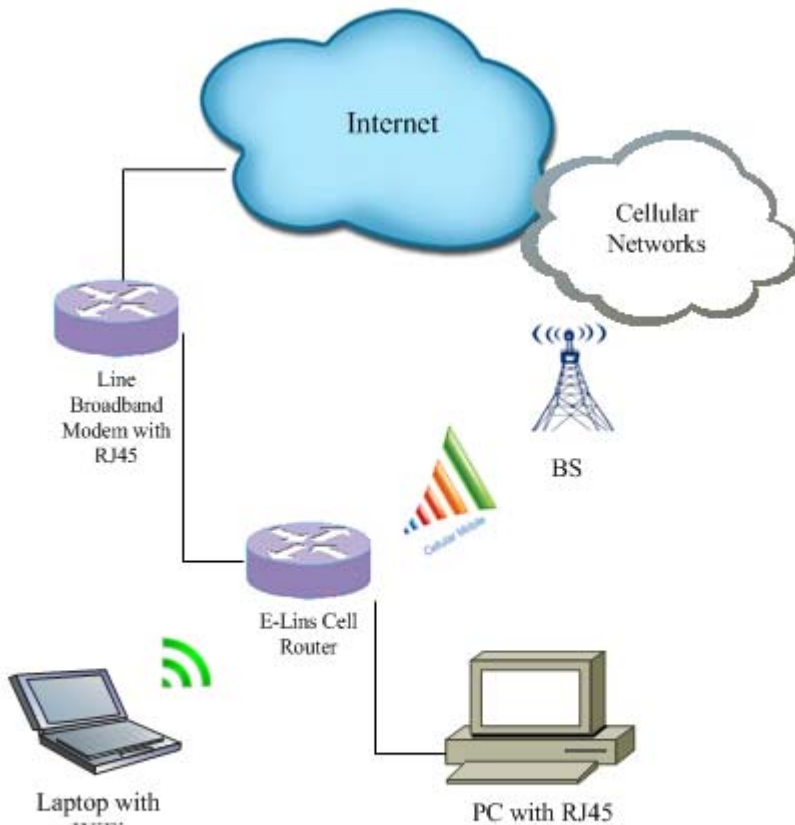


## H685/H820 WAN-RJ45 and Cell Failover Redundancy

### Typical Simple Diagram



1. E-Lins Cell Router uses WAN RJ45 connected to Line Broadband Modem with RJ45 for main line
2. Once the main line is disconnected, E-Lins Cell Router switches to Cellular line

**With this configuration and sample test, the H685/H820 will work at Broadband as main, and failover to its own cellular line.**


**Step 1)** Confirm H685/H820 can be online if it uses WAN CELL Network. Please follow the H685/H820 manual for the details.

Router configuration interface showing status and network configurations.

**Router Configuration Menu:**

- Router
  - Status
  - Operation Mode
  - DTU
  - Link Backup
  - GPS
  - SMS/Voice
  - VRRP
  - Internet Settings
  - VPN
  - WIFI
  - Firewall
  - Administration

**Cell Modem Status:**

Cell Modem	HUAWEI-EM770
IMEI/ESN	355093026362802
Sim Status	SIM ready
Selected Network	AUTO
Registered Network	Registered on Home network: "46001",2
Sub Network Type	WCDMA
Signal	22 
Cell Status	UP

**Internet Configurations:**

Connected Type	CELL
WAN IP Address	172.16.235.120
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	08:66:01:00:63:EE

**Local Network:**

Local IP Address	192.168.8.1
Local Netmask	255.255.255.0
MAC Address	08:66:01:00:63:EC

**Step 2)** Confirm E-Lins Cell Router can be connected to Line Broadband Modem.

Follow manual chapter “WAN – PPPoE (xDSL)” to configure the WAN-RJ45.

If it works, it will display the following status.

Internet Configurations	
Connected Type	PPPOE
WAN IP Address	119.59.141.4
Subnet Mask	255.255.255.255
Default Gateway	119.59.141.1
Primary Domain Name Server	211.162.78.1
Secondary Domain Name Server	211.162.78.3
MAC Address	08:66:01:00:04:A0

**Step 3)** Configure the Link Back feature.

## Link Backup

Operation Mode	
Active	<input checked="" type="checkbox"/>
Back To Higher Primary When Possible	<input checked="" type="checkbox"/>
Link Priority Settings	
WAN1:Cellular Wireless	<input type="checkbox"/> OFF <input type="radio"/> High Priority <input checked="" type="radio"/> Middle Priority <input type="radio"/> Low Priority
WAN2:Wifi DHCP Wireless	<input checked="" type="checkbox"/> OFF <input type="radio"/> High Priority <input type="radio"/> Middle Priority <input checked="" type="radio"/> Low Priority
WAN3:Wired	<input type="checkbox"/> OFF <input checked="" type="radio"/> High Priority <input type="radio"/> Middle Priority <input type="radio"/> Low Priority
Link Check Settings	
Check Count	<input type="text" value="3"/> (1-20)
Check Interval Time(min)	<input type="text" value="2"/> (1-60)
Used The Same Method	YES ▾
All WAN Check Method	<input type="text" value="ping ip"/> ▾ <input type="text" value="8.8.8.8"/> <input type="text" value="8.8.4.4"/>

**Step 4)** At “Internet Settings – WAN -- WAN Connection Type”, select “PPPoE (ADSL)” with configured and confirmed parameters. Click “Apply” button, the E-Lins Cell Router will work as Line Broadband as main, and Cell as backup low line.