



# Wireless Cellular Router/Modem

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  - Status
  - Operation Mode
  - DTU
  - Link Backup
  - GPS
  - SMS/Voice
  - VRRP
  - Internet Settings
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    - Static Routing
    - Dynamic Routing
    - Dynamic Routing List
    - QoS
    - SNMP
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    - Lo Interface
  - VPN
  - WIFI
  - Firewall
  - Administration

Select Language

English

- [Status](#)
- [Statistic](#)
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### Ethernet Port Status



### Access Point Status

System Info	
Series	R586
SN	08641304562C
Software Version	2.3.31 (Apr 4 2013)
Hardware Version	1.0.0
System Up Time	6 min
Operation Mode	Gateway Mode

  

Cell Network Info	
Cell Modem	HUAWEI-EM820
IMEI/ESN	355858040265177
Sim Status	SIM ready
Selected Network	AUTO
Registered Network	Registered on Home network: "46000",0
Sub Network Type	EDGE



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Signal	26
Cell Status	DOWN
<b>Internet Configurations</b>	
Connected Type	CELL
WAN IP Address	
Subnet Mask	
Default Gateway	
Primary Domain Name Server	
Secondary Domain Name Server	
MAC Address	08:66:01:01:4E:A6
<b>Local Network</b>	
Local IP Address	192.168.8.1
Local Netmask	255.255.255.0
MAC Address	08:66:01:01:4E:A7
<b>IPSEC Status</b>	
Name	Status
<b>PPTP Status</b>	
PPTP	down
PPTP IP	
<b>L2TP Status</b>	
L2TP	down
L2TP IP	



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## Operation Mode Configuration

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

Ethernet wan port as wan in AP Client Mode:

Ethernet wan port as lan in Cell Gateway Mode:

NAT Enabled:

TCP Timeout:

UDP Timeout:



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## DTU Settings

DTU Status	
dtu status	off

  

DTU Serial setting	
serial baudrate	115200 bps
serial parity	none
serial databits	8 bits
serial stopbits	1 bits
serial flow control	none

  

DTU config	
mode	client
Protocol	tcp
server 1	<input checked="" type="checkbox"/> 192.168.8.100 : 5000
server 2	<input type="checkbox"/> 192.168.8.101 : 5000
server 3	<input type="checkbox"/> 192.168.8.102 : 5000



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## Link Backup

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

Apply



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## GPS

GPS Settings	
GPS Active	<input type="checkbox"/>
GPS Send to	TCP/IP
GPS to Net Settings	
socktype	tcp
server	192.168.8.100
server port	6000



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### SMS/Voice Settings

#### SMS/Voice Command Settings

Message/Voice status

Fix Error For Some Network

#### telephone number

number 1	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 2	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 3	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 4	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 5	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 6	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 7	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 8	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 9	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM
number 10	<input type="text"/>	<input type="checkbox"/> SMS	<input type="checkbox"/> VOICE	<input type="checkbox"/> ALARM





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### VRRP

VRRP Settings	
VRRP Active	<input type="checkbox"/>
VRRP ID *	50 0~255
Priority *	100 1~255
Interval Time *	2 s
garp master delay *	0 s (0~1000)
Password	●●●●●●●●
Virtual IP *	192.168.8.254 :24
Source IP for Multicast	
Preemption Mode	<input checked="" type="checkbox"/>
control ipsec (only for backup)	<input type="checkbox"/>
VRRP Status	



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### Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

WAN Connection Type: Cell Network

Cell Mode	
Cell Modem	<span>HUAWEI-EM820</span>
Modem Description	HUAWEI WCDMA 3G modem
Network Type	<span>AUTO</span>
Online Mode	<span>Keep Alive</span>
Parameter Groups	<span>WCDMA</span> <span>View</span> <span>Delete</span>
<span>Advance Parameter Groups</span>	
<span>Advance Cell Options</span>	
MAC Clone	
Enabled	<span>Disable</span>

Apply Cancel



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### Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

LAN Setup	
IP Address	<input type="text" value="192.168.8.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
LAN 2	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
LAN2 IP Address	<input type="text"/>
LAN2 Subnet Mask	<input type="text"/>
MAC Address	08:66:01:01:4E:A7
DHCP Type	Server
Start IP Address	<input type="text" value="192.168.8.100"/>
End IP Address	<input type="text" value="192.168.8.200"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Primary DNS Server	<input type="text" value="168.95.1.1"/>
Secondary DNS Server	<input type="text" value="8.8.8.8"/>



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Secondary DNS Server	<input type="text" value="8.8.8.8"/>
Default Gateway	<input type="text" value="192.168.8.1"/>
Lease Time	<input type="text" value="86400"/>
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
802.1d Spanning Tree	Disable ▾
LLTD	Disable ▾
IGMP Proxy	Disable ▾
UPNP	Disable ▾
PPPoE Relay	Disable ▾
DNS Proxy	Enable ▾



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### DHCP Client List

You could monitor DHCP clients here.

DHCP Clients			
Hostname	MAC Address	IP Address	Expires in





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### Dynamic Routing Settings

You may enable and disable dynamic routing here.

#### Zebra Settings

Reset Zebra

#### Change Zebra Password

old Passowrd

new Passowrd

#### RIP Dynamic routing Settings

RIP

#### Change RIP Password



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### Dynamic Routing List

You may view dynamic routing here.

#### Dynamic Routing List Select

Route Type

#### dynamic routing list

no	flags	Destination	gateway	interface
0	C>*	127.0.0.0/8	0.0.0.0	lo
1	C>*	192.168.8.0/24	0.0.0.0	br0
2	K>*	255.255.255.255/32	0.0.0.0	br0

K - kernel route, C - connected, S - static, R - RIP, O - OSPF, B - BGP, > - selected route, \* - FIB route





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### SNMP

SNMP Settings	
SNMP Active	<input type="checkbox"/>
Contact Info	<input type="text"/>
Location	<input type="text"/>

  

SNMP V1 and V2c Settings	
user	<input type="text" value="public"/>
host/lan	<input type="text" value="0.0.0.0/0"/>
writable	<input type="checkbox"/>

  

SNMP V3 Settings	
user	<input type="text"/>
writable	<input type="checkbox"/>
Security mode	<input type="radio"/> None <input type="radio"/> Authorized <input checked="" type="radio"/> Private
Authentication	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Encryption	<input checked="" type="radio"/> DES <input type="radio"/> AES
Authentication Password	<input type="password" value="••••••••"/>



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### IPSEC VPN

IPSEC List						
Select	Name	Service Status	Gateway	Interface	Active Status	Link Status



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## PPTP

PPTP VPN Settings	
PPTP IP	
PPTP VPN Active	<input type="checkbox"/>
PPTP User	pppoe_user
PPTP Password	●●●●●●●●
PPTP Server	
Remote Lan/Mask	/
Local PPTP IP	dhcp
MPPE Encryption	<input type="checkbox"/>



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## L2TP

L2TP VPN Settings	
L2TP IP	
L2TP VPN Active	<input type="checkbox"/>
L2TP User	<input type="text"/>
L2TP Password	<input type="text"/>
L2TP Server	<input type="text"/>
Remote Lan/Mask	<input type="text"/> / <input type="text"/>
Local PPTP IP	dhcp <input type="text"/>
MPPE Encryption	<input type="checkbox"/>



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### Basic Wireless Settings

You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items.

Wireless Network		
Radio On/Off	RADIO OFF	
WiFi On/Off	WiFi OFF	
Network Mode	11b/g/n mixed mode	
Network Name(SSID)	Cell_AP_130455C7	Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID1		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID2		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID3		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID4		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID5		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID6		Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>



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HT Physical Mode	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
MBSSID AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
BSSID	08:66:01:01:4E:A8
Frequency (Channel)	2412MHz (Channel 1) ▾
<b>HT Physical Mode</b>	
Operating Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Channel BandWidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Guard Interval	<input type="radio"/> Long <input checked="" type="radio"/> Auto
MCS	Auto ▾
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Extension Channel	2432MHz (Channel 5) ▾
Space Time Block Coding(STBC)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Aggregation MSDU(A-MSDU)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Auto Block ACK	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Decline BA Request	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
HT Disallow TKIP	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<b>Other</b>	



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### Advanced Wireless Settings

Use the Advanced Setup page to make detailed settings for the Wireless. Advanced Setup includes items that are not available from the Basic Setup page, such as Beacon Interval, Control Tx Rates and Basic Data Rates.

Advanced Wireless	
BG Protection Mode	Auto ▾
Beacon Interval	100 ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	1 ms (range 1 - 255, default 1)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 (range 1 - 100, default 100)
Short Preamble	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Short Slot	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Tx Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Pkt_Aggregate	<input checked="" type="radio"/> Enable <input type="radio"/> Disable



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  - DMZ
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### Wireless Security/Encryption Settings

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID	
SSID choice	Cell_AP_130455C7 ▾
"Cell_AP_130455C7"	
Security Mode	Disable ▾
Access Policy	
Policy	Disable ▾
Add a station Mac:	<input type="text"/>





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### MAC/IP/Port Filtering Settings

You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.

#### Basic Settings

MAC/IP/Port Filtering	Disable ▾
Default Policy -- The packet that don't match with any rules would be:	Dropped ▾

#### MAC/IP/Port Filter Settings

Source MAC address	<input type="text"/>
Dest IP Address	<input type="text"/>
Source IP Address	<input type="text"/>
Protocol	None ▾



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  - PPTP
  - L2TP
  - Tunnel
- WIFI
  - Basic
  - Advanced
  - Security
  - WDS
  - WPS
  - Station List
  - Statistics
- Firewall
  - MAC/IP/Port Filtering
  - Port Forwarding
  - DMZ
  - System Security
  - Content Filtering
- Administration

### Virtual Server Settings

You may setup Virtual Servers to provide services on Internet.

Port Forwarding	
Port Forwarding	Disable ▾
IP Address	<input type="text"/> : <input type="text"/>
Port Range	<input type="text"/> - <input type="text"/>
Protocol	TCP&UDP ▾
Interface	WAN ▾
Comment	<input type="text"/>

(The maximum rule count is 32.)

Current Port Forwarding in system:					
No.	IP Address	Port Range	Protocol	Interface	Comment



- Static Routing
- Dynamic Routing
- Dynamic Routing List
- QoS
- SNMP
- Cell ICMP Check
- Lo Interface
- VPN
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### System Security Settings

You may configure the system firewall to protect AP/Router itself from attacking.

<b>Remote management</b>	
Remote management (via WAN)	Allow ▾
<b>Ping form WAN Filter</b>	
Ping form WAN Filter	Disable ▾
<b>Block Port Scan</b>	
Block port scan	Disable ▾
<b>Block SYN Flood</b>	
Block SYN Flood	Disable ▾
<b>Stateful Packet Inspection (SPI)</b>	
SPI Firewall	Disable ▾



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  - Management
  - Upload Firmware
  - Settings Management
  - System Command
  - System Log
  - Statistics
  - Reboot

### Content Filter Settings

You can setup Content Filter to restrict the improper content access.

#### Webs Content Filter

Filters:  Proxy  Java  ActiveX

### Webs URL Filter Settings

#### Add a URL filter:

URL:

#### Current Webs URL Filters:

No	URL



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## System Management

You may configure administrator account and password, NTP settings, and Dynamic DNS settings here.

### Language Settings

Select Language	English ▾
-----------------	-----------

### Administrator Settings

Account	admin
Password	•••••
WatchDog	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

### Web Management Port Settings



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### System Log

#### Remote System Log Settings

Remote System Log Active	<input type="checkbox"/>
server	192.168.8.100 :UDP:514

apply

#### System Log

```
Jan 1 00:00:15 syslogd started: BusyBox v1.12.1
Jan 1 00:00:15 kernel: klogd started: BusyBox v1.12.1 (2013-02-23 15:19
Jan 1 00:00:15 kernel: Linux version 2.6.21 (root@localhost.localdomain
Jan 1 00:00:15 kernel:
Jan 1 00:00:15 kernel: The CPU frequency set to 360 MHz
Jan 1 00:00:15 kernel: CPU revision is: 0001964c
Jan 1 00:00:15 kernel: Determined physical RAM map:
Jan 1 00:00:15 kernel: memory: 04000000 @ 00000000 (usable)
Jan 1 00:00:15 kernel: Initrd not found or empty - disabling initrd
Jan 1 00:00:15 kernel: On node 0 totalpages: 16384
Jan 1 00:00:15 kernel: DMA zone: 128 pages used for memmap
Jan 1 00:00:15 kernel: DMA zone: 0 pages reserved
Jan 1 00:00:15 kernel: DMA zone: 16256 pages, LIFO batch:3
Jan 1 00:00:15 kernel: Normal zone: 0 pages used for memmap
Jan 1 00:00:15 kernel: Built 1 zonelists. Total pages: 16256
```



# Wireless Cellular Router/Modem

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## Statistic

Take a look at the statistics

Memory	
Memory total:	60652 kB
Memory left:	31208 kB

  

WAN/LAN	
WAN Rx packets:	0
WAN Rx bytes:	0
WAN Tx packets:	6
WAN Tx bytes:	492
LAN Rx packets:	956
LAN Rx bytes:	99143
LAN Tx packets:	1276
LAN Tx bytes:	1105921

  

All interfaces	
Name	eth2
Rx Packet	1320
Rx Byte	163356
Tx Packet	1525
Tx Byte	1222420