

WiFi to Serial Module Command set

Rev. 1.00

2013/07/11

Revision	Date	Description
1.00	2013/07/11	Initial release.

History

1. RS232 Commands table

ITEM	FUNCTION	COMMAND	PAGE
1	To change data mode to command mode	+++	5
2	To change command mode to data mode	exit	5
3	System restart	reboot	8
4	New password	passwd	8
5	New username	username	8
6	IP address information inquiry	ipconfig	9
7	System parameter save	saveconfig	9
8	Software reboot	software-reset	9
9	E-mail configuration information	emconfig	9
10	Wifi connection status	connstatus	10
11	Inquiry an IP network	ping	10
12	Wireless site survey in infrastructure mode	sisrvy	10
13	Interconnect Wireless network	jbss	10
14	WiFi allocation information	wificonfig	11
15	Easy configuration module	ezconfig	12
16	MAC address information	station	12
17	Static IP address of device server in Server mode	set ip	12
18	Subnet mask of device server	set mask	12
19	Gateway IP address of device server	set gateway	12
20	DNS server IP address of device server	set dns	13
21	UART serialport parameter setting	set serialport	13
22	Server/Client setting	set mode	13

WiFi to Serial gateway command set

ITEM	FUNCATION	COMMAND	PAGE
23	Local server port setting	set srvport	14
24	Destination port setting	set dstport	14
25	DHCP enable/disable	set dhcpclient	14
26	Communication protocol	set connectype	15
27	Time interval to send out serial data packet	set transmitimer	15
28	Accessible IP Addresses Configuration Parameters	set accessip	15
29	Accessible IP Mode: Enable	set accip	16
30	Current e-mail server address: XXX.com.tw	set ems	16
31	Current e-mail from address	set emf	16
32	Current e-mail to1 address	set emt1	17
33	Current e-mail to2 address	set emt2	17
34	Current e-mail to3 address	set emt3	17
35	Auto Warning Settings	set aw	17
36	RS485 mode set	set rs485	17
37	Assign host IP address	set dsthn	18
38	Firmware upgrade server address	set tftpsrv	18
39	Firmware upgrade file name	set filename	18
40	Display Debug Message	set dbgmsg	18
41	Transmit management data via broadcast/multicast packet	set bmcast	19
42	Service Set Identifier	set ssid	19
43	Ad-hoc / Infrastructurt mode setting	set nt	19
44	Channel setting	set ch	20
45	If WEP encryption is selected, this selects the key length, either WEP-64 or WEP-128 to be used.	set wepklen	20

46	Wireless network Encryption	set w64k	20
47	Wireless network Encryption	set w128k	21

WiFi to Serial gateway command set

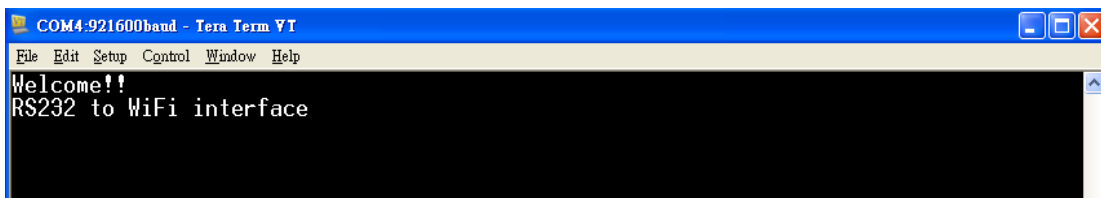
48	WEP Key Index	set wki	21
49	AES/TKIP key value	set wp	21
50	The WiFi data can be encrypted with option of open system , WEP 64/128, TKIP and AES.	set et	21
51	Preamble will be either Long Preamble, or Auto	set pmb	22
52	Transmission Power Level	set tpl	22
53	Transmission data rate of WiFi connection	set dr	22
54	Enable/disable Auto Power Control	set apc	22
55	Periodic time to send Beacon in ms, if in Ad-Hoc mode	set bi	23
56	Protection frame type will be either RTS or Self-CTS	set pft	23
57	Key auto code setting	set keyauto	23
58	DHCP server setting	set dhcpsrv	23
59	DHCP server enable	set dhcpsrvenable	24

2. RS232 interface

2-1. Start interface in data mode

When turn on system you will see “Welcome! RS232 to WiFi interface “.

It is in data transfer mode now! As below



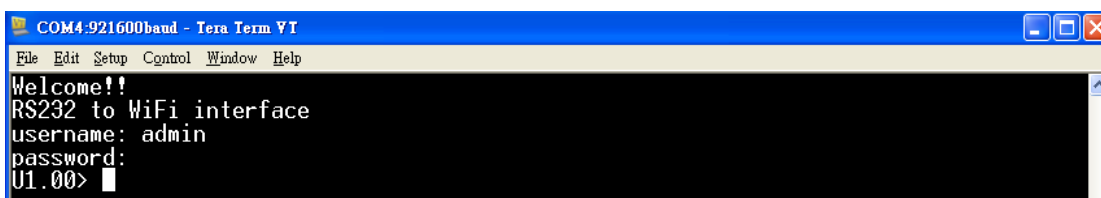
```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
Welcome!!
RS232 to WiFi interface
```

2-2 Command mode

If you would like change to command mode please keyin “+++” directly , then hit “Enter” key.

The default setting of username and password are same as “ admin “.

It is in command now! As below.

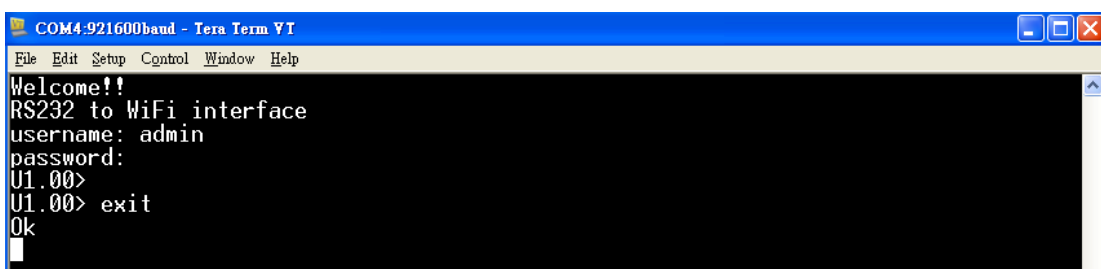


```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
Welcome!!
RS232 to WiFi interface
username: admin
password:
U1.00> █
```

2-3 Exit command mode

If you would like back to data transfer mode please keyin “ exit” directly , then hit “Enter” key.

It back to data transfer now! As below.



```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
Welcome!!
RS232 to WiFi interface
username: admin
password:
U1.00>
U1.00> exit
Ok
█
```

2-4RS-232 WIFI MODULE COMMAND include two kind of set

2-4-1 General command set as follow :

Keyin “ help” , then hit “Enter” key.

These commands are all involved 17 commands in the group

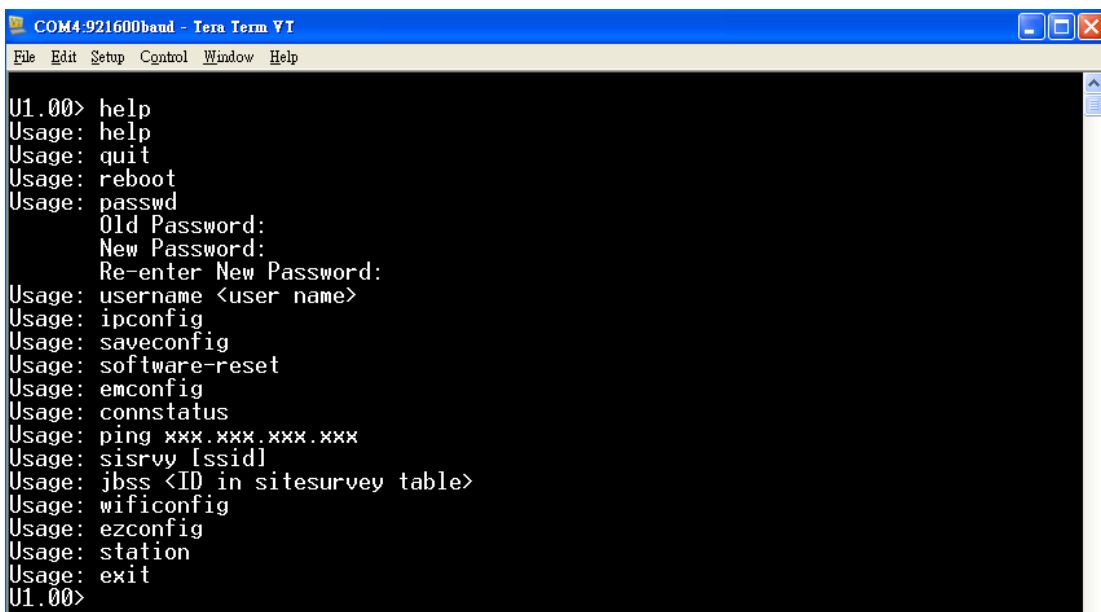


figure 2-4.a

2-4-2 Set and Get command as follow :

Keyin “ sethelp” , then hit “Enter” key.

These commands are all involved 44 commands in the group.

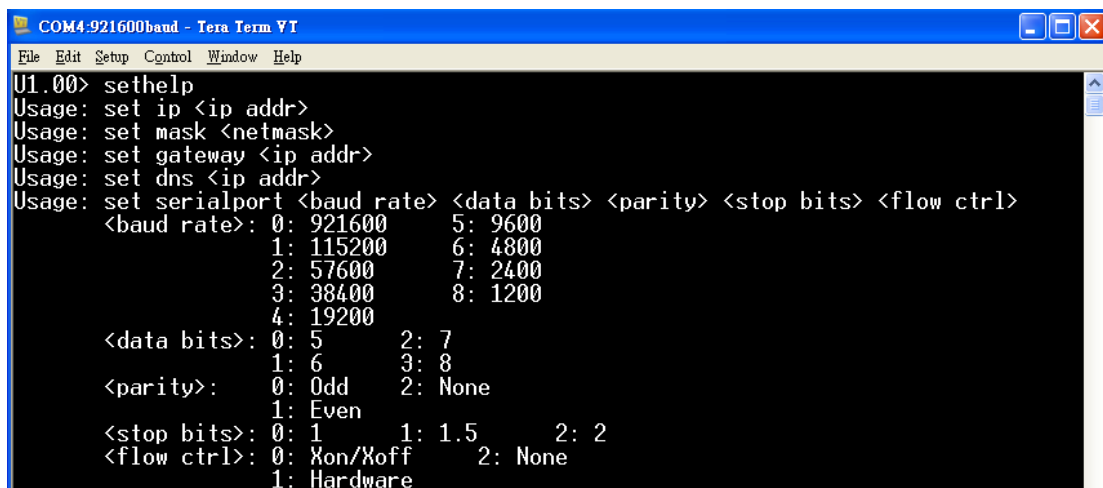
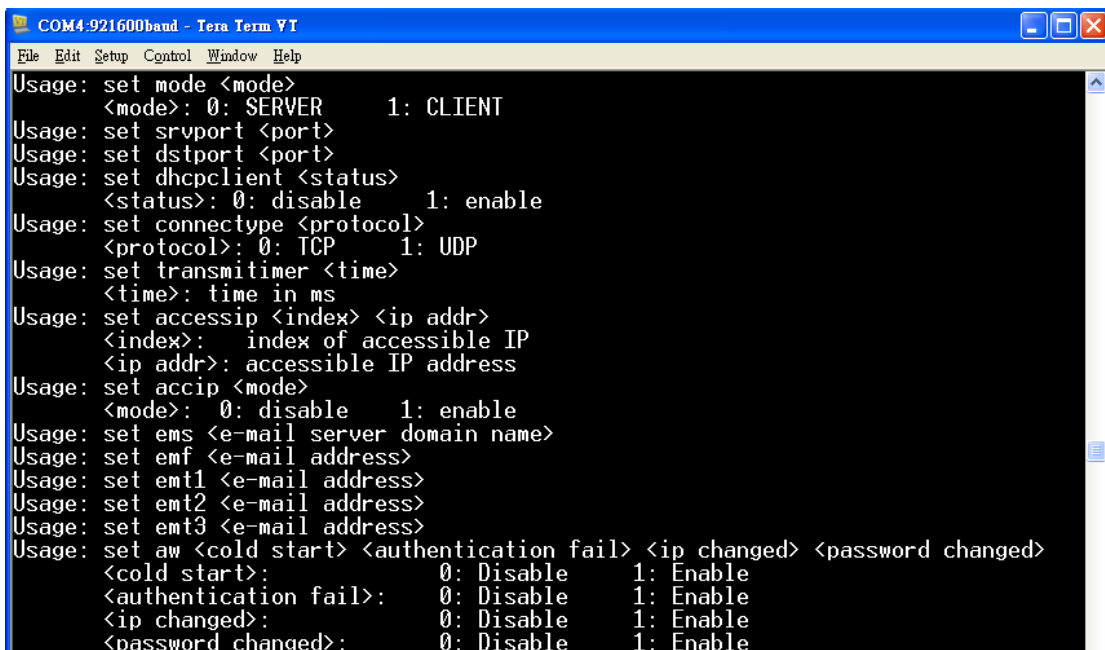


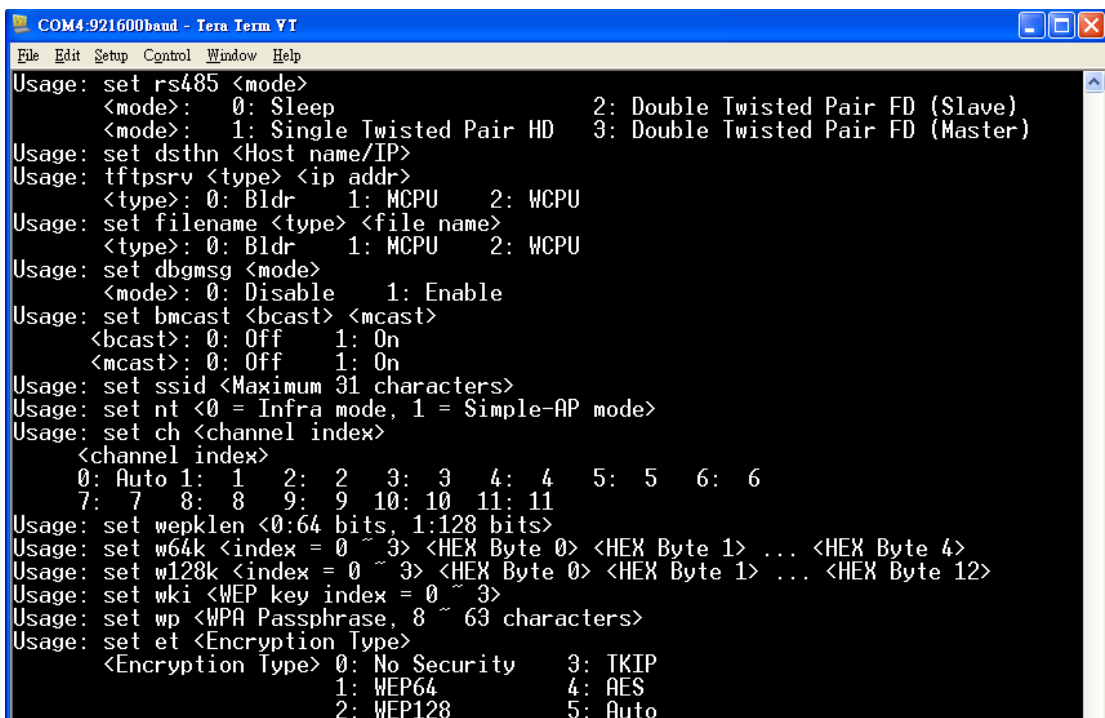
figure 2-4.b

WiFi to Serial gateway command set



```
COM4:921600band - Tera Term VI
File Edit Setup Control Window Help
Usage: set mode <mode>
      <mode>: 0: SERVER      1: CLIENT
Usage: set srvport <port>
Usage: set dstport <port>
Usage: set dhcpclient <status>
      <status>: 0: disable   1: enable
Usage: set connectype <protocol>
      <protocol>: 0: TCP     1: UDP
Usage: set transmitimer <time>
      <time>: time in ms
Usage: set accessip <index> <ip addr>
      <index>: index of accessible IP
      <ip addr>: accessible IP address
Usage: set accip <mode>
      <mode>: 0: disable    1: enable
Usage: set ems <e-mail server domain name>
Usage: set emf <e-mail address>
Usage: set emt1 <e-mail address>
Usage: set emt2 <e-mail address>
Usage: set emt3 <e-mail address>
Usage: set aw <cold start> <authentication fail> <ip changed> <password changed>
      <cold start>:      0: Disable    1: Enable
      <authentication fail>: 0: Disable    1: Enable
      <ip changed>:      0: Disable    1: Enable
      <password changed>: 0: Disable    1: Enable
```

figure 2-4.c



```
COM4:921600band - Tera Term VI
File Edit Setup Control Window Help
Usage: set rs485 <mode>
      <mode>: 0: Sleep          2: Double Twisted Pair FD (Slave)
      <mode>: 1: Single Twisted Pair HD  3: Double Twisted Pair FD (Master)
Usage: set dsthn <Host name/IP>
Usage: tftpsrv <type> <ip addr>
      <type>: 0: Bldr      1: MCPU    2: WCPU
Usage: set filename <type> <file name>
      <type>: 0: Bldr      1: MCPU    2: WCPU
Usage: set dbgmsg <mode>
      <mode>: 0: Disable    1: Enable
Usage: set bmcst <bcast> <mcast>
      <bcast>: 0: Off      1: On
      <mcast>: 0: Off      1: On
Usage: set ssid <Maximum 31 characters>
Usage: set nt <0 = Infra mode, 1 = Simple-AP mode>
Usage: set ch <channel index>
      <channel index>
      0: Auto 1: 1  2: 2  3: 3  4: 4  5: 5  6: 6
      7: 7  8: 8  9: 9 10: 10 11: 11
Usage: set wepklen <0:64 bits, 1:128 bits>
Usage: set w64k <index = 0 ~ 3> <HEX Byte 0> <HEX Byte 1> ... <HEX Byte 4>
Usage: set w128k <index = 0 ~ 3> <HEX Byte 0> <HEX Byte 1> ... <HEX Byte 12>
Usage: set wki <WEP key index = 0 ~ 3>
Usage: set wp <WPA Passphrase, 8 ~ 63 characters>
Usage: set et <Encryption Type>
      <Encryption Type> 0: No Security    3: TKIP
                       1: WEP64          4: AES
                       2: WEP128         5: Auto
```

figure 2-4.d

```
Usage: set pmb <0 = Long preamble, 1 = Auto>
Usage: set rts <RTS threshold, 0 ~ 2432>
Usage: set tpl <Power level>
      <Power level> 0: 100%      3: 12.5%
                   1: 50%       4: 6.25%
                   2: 25%
Usage: set dr <Data rate>
      <Data rate> 0: Auto        7: 12Mbps
                 1: 1Mbps       8: 18Mbps
                 2: 2Mbps       9: 24Mbps
                 3: 5.5Mbps     10: 36Mbps
                 4: 6Mbps       11: 48Mbps
                 5: 9Mbps       12: 54Mbps
                 6: 11Mbps
Usage: set apc <Auto power control>
      <Auto power control> 0: Disable  1: Enable
Usage: set bi <Beacon interval(ms)>
      <Beacon interval(ms)> 20 ~ 1000
Usage: set pft <Protection frame type>
      <Protection frame type>: 0: RTS    1: Self-CTS
Usage: set keyauto <key string>
Usage: set dhcprsv <start addr> <end addr> <netmask> <gateway> <lease>
Usage: set dhcprvenable <status>
      <status>: 0: disable  1: enable
U1.00>
```

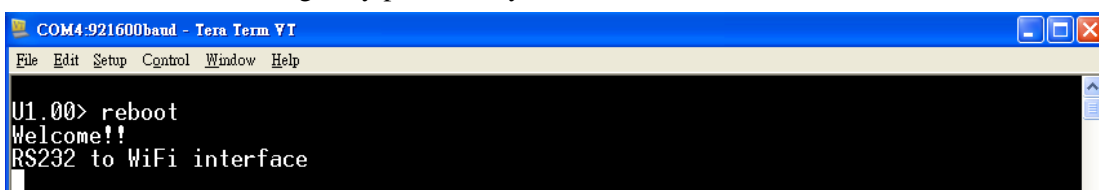
figure 2-4.e

2-5 Command detail description

2-5-1 reboot

System restart.

Not to change any parameter you set.



```
COM4:921600band - Tera Term V1
File Edit Setup Control Window Help
U1.00> reboot
Welcome!!
RS232 to WiFi interface
```

2-5-2 passwd

Use this command to modify your personal password for security.



```
COM4:921600band - Tera Term V1
File Edit Setup Control Window Help
U1.00> reboot
Welcome!!
RS232 to WiFi interface
username: admin
password:
U1.00> passwd
Old Password:
New Password:
Re-enter New Password:
Success to change password
U1.00>
```

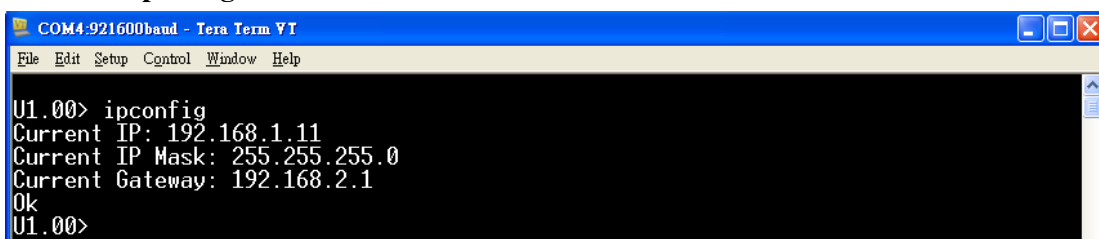
2-5-3 username

Use this command to modify your personal username for security.



```
COM4:921600band - Tera Term V1
File Edit Setup Control Window Help
U1.00> username OWNNAME
Ok
U1.00>
```

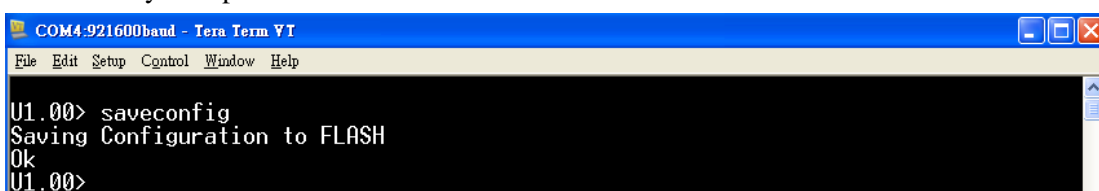

2-5-4 ipconfig



```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
U1.00> ipconfig
Current IP: 192.168.1.11
Current IP Mask: 255.255.255.0
Current Gateway: 192.168.2.1
Ok
U1.00>
```

2-5-5 saveconfig

system parameter save.

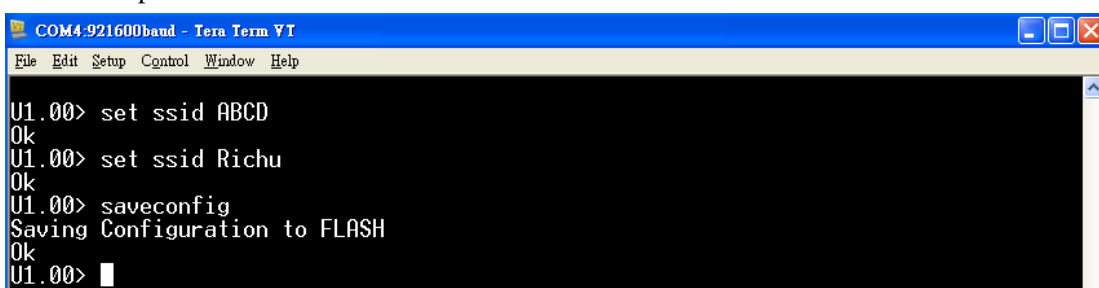


```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
U1.00> saveconfig
Saving Configuration to FLASH
Ok
U1.00>
```

It is important after you do “set “ command to save system parameter , it is regarding system configuration for next boot.

You can set all what you need and save them together.

The example as below.



```
COM4:921600band - Tera Term VT
File Edit Setup Control Window Help
U1.00> set ssid ABCD
Ok
U1.00> set ssid Richu
Ok
U1.00> saveconfig
Saving Configuration to FLASH
Ok
U1.00> █
```

2-5-6 software-reset

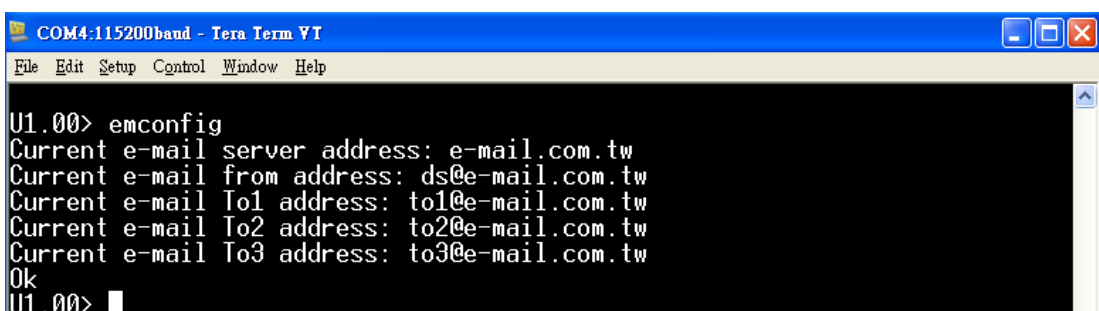
System parameter change to default



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> software-reset
Welcome!!
RS232 to WiFi interface
```

2-5-7 emconfig

E-mail configuration information



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> emconfig
Current e-mail server address: e-mail.com.tw
Current e-mail from address: ds@e-mail.com.tw
Current e-mail To1 address: to1@e-mail.com.tw
Current e-mail To2 address: to2@e-mail.com.tw
Current e-mail To3 address: to3@e-mail.com.tw
Ok
U1.00> █
```

2-5-8 connstatus

Wifi connection status

```

COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> connstatus
Connect Status: Idle
TCP Tx Flag: 1
Ok
U1.00>
    
```

2-5-9 ping

Inquiry whether a particular host is reachable across an IP network

```

COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> ping 192.168.2.7
Pinging from 192.168.2.7: with 32 bytes of data:
Reply from 192.168.2.7: bytes=32 time<10ms TTL=128
Reply from 192.168.2.7: bytes=32 time<10ms TTL=128
Reply from 192.168.2.7: bytes=32 time<10ms TTL=128
Reply from 192.168.2.7: bytes=32 time<10ms TTL=128
Ping statistics for 192.168.2.7:
    Packets: Sent=4, Received=4, lost=0
Ok
U1.00>
    
```

2-5-10 sirsrvy

Check Wireless network

```

COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> sirsrvy
Please wait...
INDEX BSSID          SSID          TYPE CH  RSSI SECURITY
00    -08- -c3- -7a dlink      ap   001 07  2|yes
01    -f1- -03- -ba Sun       ap   001 07  2|yes
02    -b2- -56- -fc Richu     ap   001 1d  1|yes
03    -d0- -ca- -16 skytraq@tpe ap   003 16  2|yes
04    -21- -08- -2f dlink     ap   007 64  2|yes
05    -0e- -00- -b3 abc        ap   007 16  0|no
06    -d6- -b8- -76 dlink-baal ap   008 10  2|yes
07    -7d- -d5- -f8 Gibsin   ap   009 10  2|yes
08    -19- -15- -35 Winky Onlin ap   009 10  2|yes
Ok
U1.00>
    
```

2-5-11 jboss

Interconnect Wireless network

Ex : jboss link to INDEX 00 for SSID Richu.

```

COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> sirsrv
Please wait...
INDEX BSSID          SSID          TYPE CH  RSSI SECURITY
00    -b2-   -56-   -fc Richu      ap   001  21  1|yes
01    -08-   -c3-   -7a dlink     ap   001  07  2|yes
02    -f1-   -03-   -ba Sun      ap   001  06  2|yes
03    -24-   -3b-   -c0 FET Wi-Fi ap   001  07  0|no
04    -d0-   -ca-   -16 skytraq@tpe ap  003  10  2|yes
05    -21-   -08-   -2f dlink     ap   007  2c  2|yes
06    -0e-   -00-   -b3 abc       ap   007  10  0|no
07    -7d-   -d5-   -f8 Gibsin   ap   009  10  2|yes
Ok
U1.00> jboss 00
Please wait...
Join BSS successful!
Update base band|1= 802.11b/g mode
Update network mode|3= infrastructure
Update channel= 1
Update ssid= Richu
Authentication type|0: open system
Update encryption type|1=WEP64 bits
Update Tx Rate|0= Auto
Save WiFi config to flash ROM
Ok
U1.00>

```

2-5-12 Wificonfig

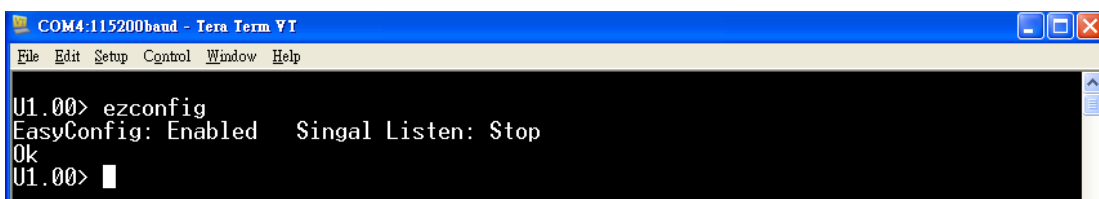
WiFi allocation information

```

COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
wificonfig
Please wait...
Current WiFi Settings
* WCPU F/W version: 2.1.121
* WiFi MAC address: 0x000e555302a2
* Baseband|1: 802.11b/g mode
* Network|3: infrastructure
* Channel: 11
* SSID: QAZX
* Security|1: WEP64 bits
* WEP Key Index: 0
* WEP64 bits key index 0: bb12345678
* WEP64 bits key index 1: 0987654321
* WEP64 bits key index 2: a1b2c3d4e5
* WEP64 bits key index 3: 0123456789
* WEP128 bits key index 0: 0102030405060708090a0b0c0d
* WEP128 bits key index 1: 0e0f101112131415161718191a
* WEP128 bits key index 2: 1b1c1d1e1f2021222324252627
* WEP128 bits key index 3: 28292a2b2c2d2e2f3031323334
* AES/TKIP Passphrase: bb12345678
* Tx Rate|0: Auto
* Transmission Power Level|0: 100%
* Preamble Mode|32: auto
* Beacon Interval: 100 ms
* RTS Threshold: 2432
* Authentication type|0: open system
* Auto Power Control|1: enable
* Protection Frame Type|0: RTS
Ok
U1.00>

```

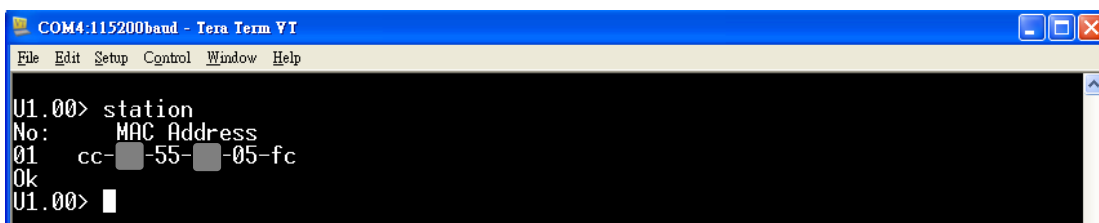
2-5-13 ezconfig



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> ezconfig
EasyConfig: Enabled   Singal Listen: Stop
Ok
U1.00> █
```

2-5-14 Station

MAC address information

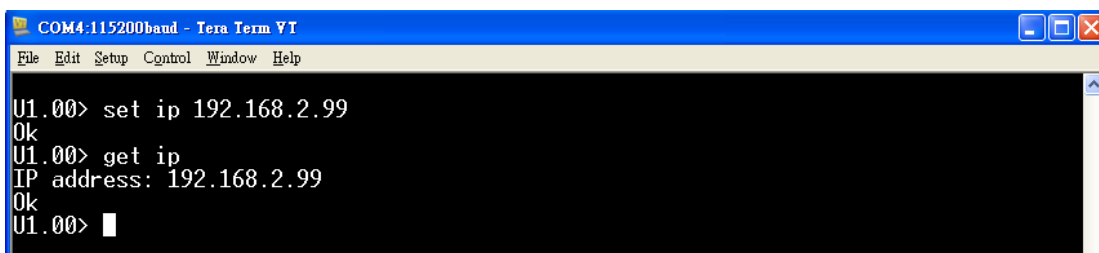


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> station
No:   MAC Address
01   cc-██-55-██-05-fc
Ok
U1.00> █
```

2-5-15 set ip , get ip

Static IP address setting , please refer to page 6 ~8.

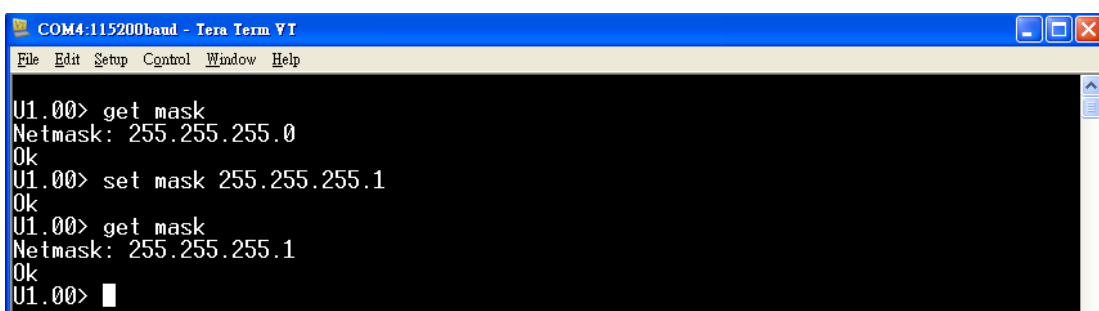
set ip <ip addr>.



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> set ip 192.168.2.99
Ok
U1.00> get ip
IP address: 192.168.2.99
Ok
U1.00> █
```

2-5-16 set mask , get mask

Subnet mask setting

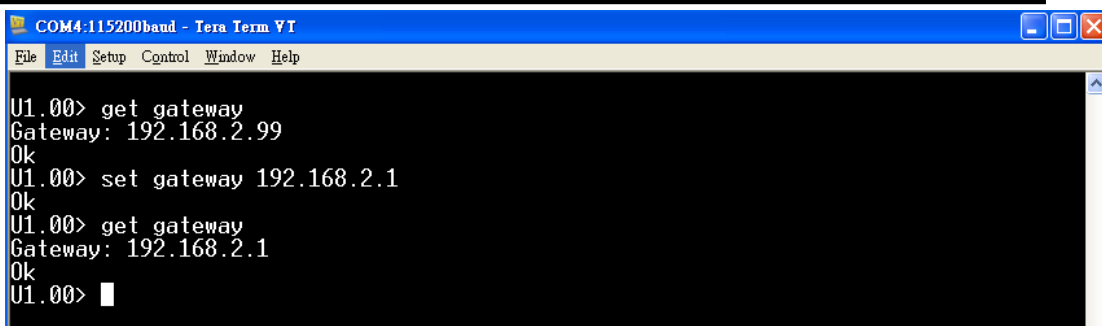


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get mask
Netmask: 255.255.255.0
Ok
U1.00> set mask 255.255.255.1
Ok
U1.00> get mask
Netmask: 255.255.255.1
Ok
U1.00> █
```

2-5-17 set gateway , get gateway

Gateway setting

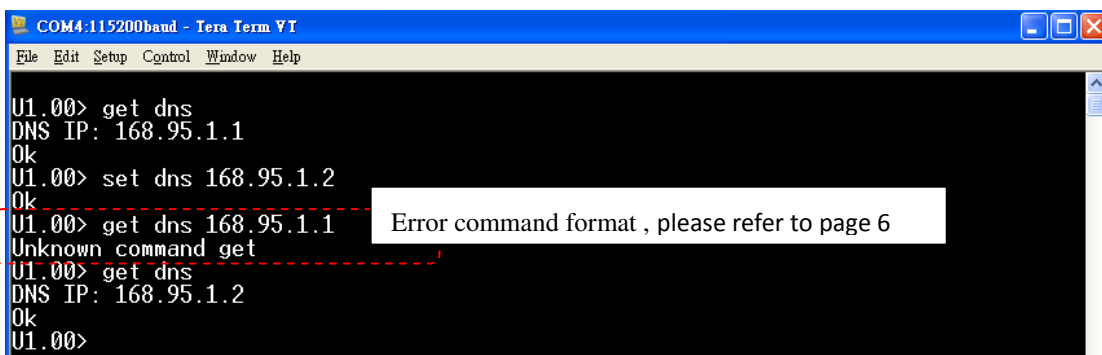
WiFi to Serial gateway command set



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get gateway
Gateway: 192.168.2.99
Ok
U1.00> set gateway 192.168.2.1
Ok
U1.00> get gateway
Gateway: 192.168.2.1
Ok
U1.00> █
```

2-5-18 set dns , get dns

DNS setting

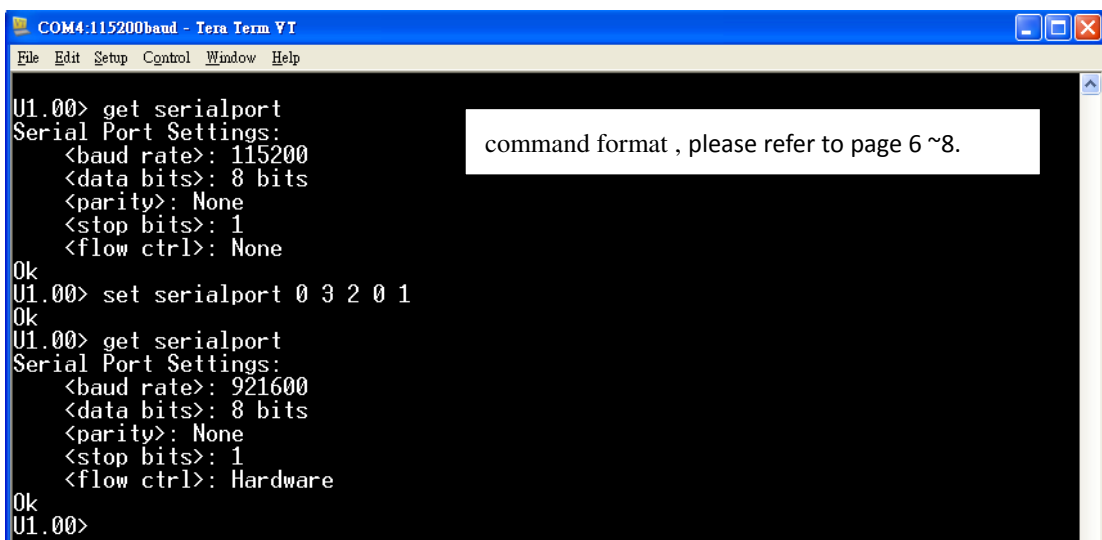


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dns
DNS IP: 168.95.1.1
Ok
U1.00> set dns 168.95.1.2
Ok
U1.00> get dns 168.95.1.1
Unknown command get
U1.00> get dns
DNS IP: 168.95.1.2
Ok
U1.00>
```

Error command format , please refer to page 6

2-5-19 set serialport , get serialport

UART serialport parameter setting , , please refer to page 6



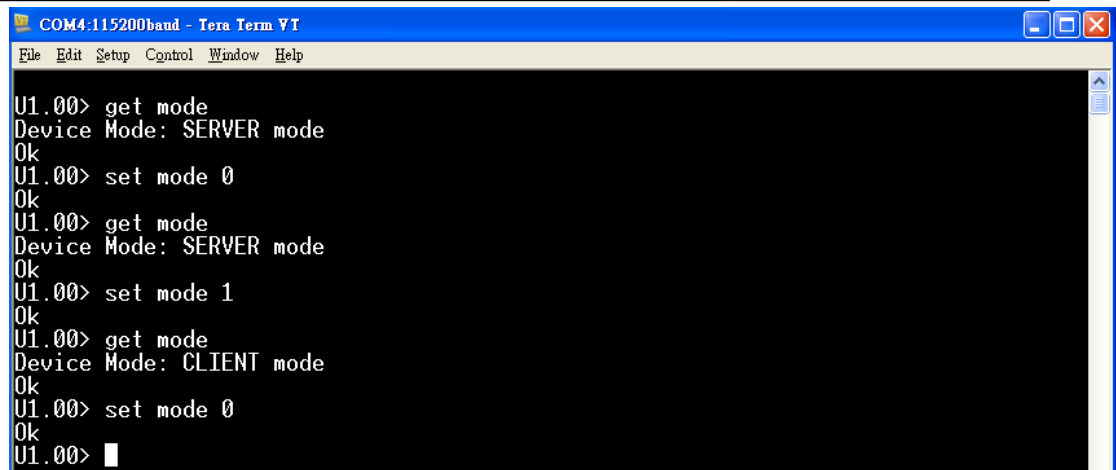
```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get serialport
Serial Port Settings:
<baud rate>: 115200
<data bits>: 8 bits
<parity>: None
<stop bits>: 1
<flow ctrl>: None
Ok
U1.00> set serialport 0 3 2 0 1
Ok
U1.00> get serialport
Serial Port Settings:
<baud rate>: 921600
<data bits>: 8 bits
<parity>: None
<stop bits>: 1
<flow ctrl>: Hardware
Ok
U1.00>
```

command format , please refer to page 6 ~8.

2-5-20 set mode , get mode

Server/Client setting

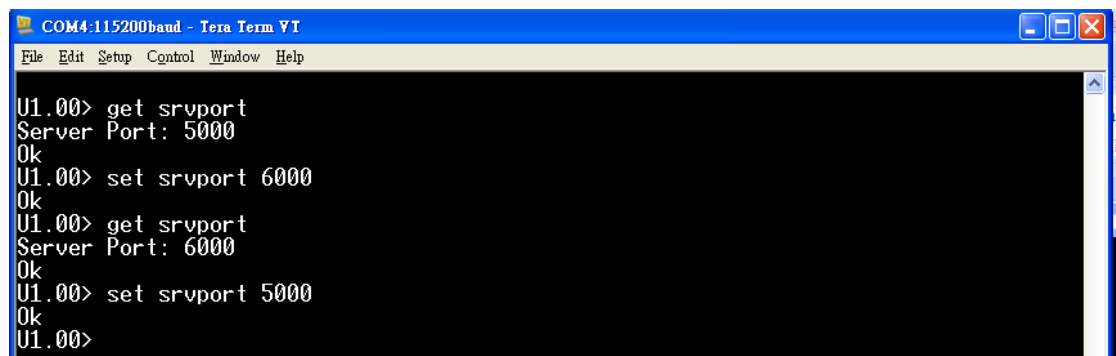
WiFi to Serial gateway command set



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get mode
Device Mode: SERVER mode
Ok
U1.00> set mode 0
Ok
U1.00> get mode
Device Mode: SERVER mode
Ok
U1.00> set mode 1
Ok
U1.00> get mode
Device Mode: CLIENT mode
Ok
U1.00> set mode 0
Ok
U1.00>
```

2-5-21 set srvport , get srvport

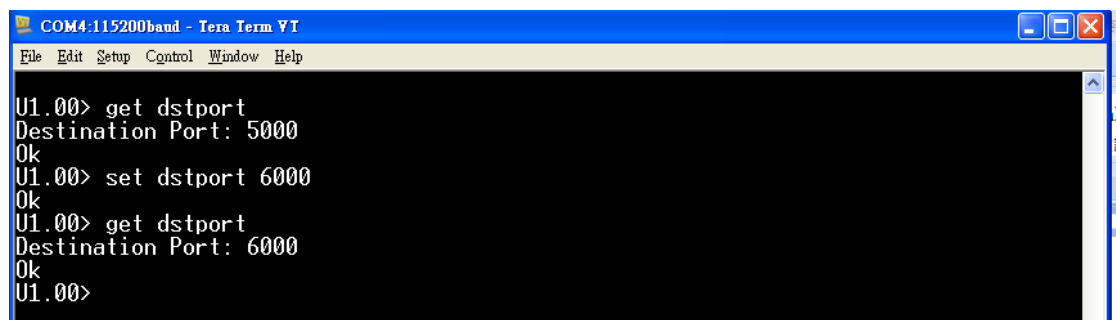
Local server port setting



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get srvport
Server Port: 5000
Ok
U1.00> set srvport 6000
Ok
U1.00> get srvport
Server Port: 6000
Ok
U1.00> set srvport 5000
Ok
U1.00>
```

2-5-22 set dstport , get dstport

Destination port setting

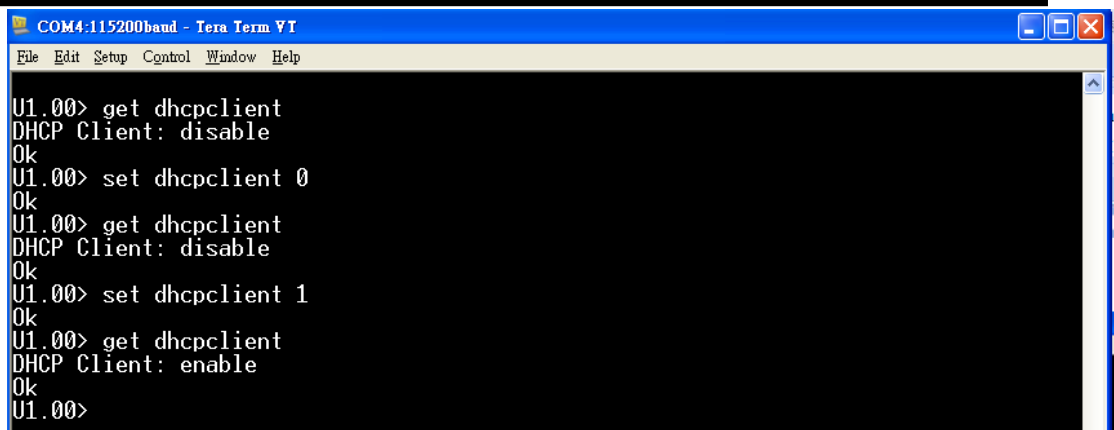


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dstport
Destination Port: 5000
Ok
U1.00> set dstport 6000
Ok
U1.00> get dstport
Destination Port: 6000
Ok
U1.00>
```

2-5-23 set dhcpclient , get dhcpclient

DHCP enable/disable

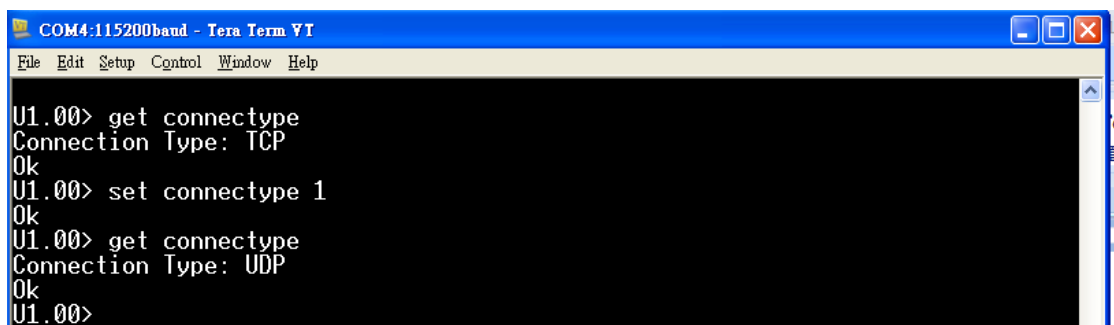
WiFi to Serial gateway command set



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dhcpclient
DHCP Client: disable
Ok
U1.00> set dhcpclient 0
Ok
U1.00> get dhcpclient
DHCP Client: disable
Ok
U1.00> set dhcpclient 1
Ok
U1.00> get dhcpclient
DHCP Client: enable
Ok
U1.00>
```

2-5-24 set connectype , get connectype

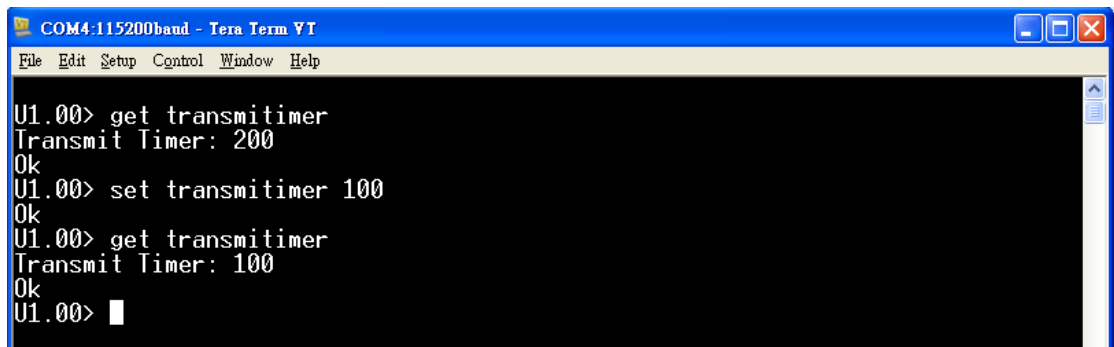
Communication protocol



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get connectype
Connection Type: TCP
Ok
U1.00> set connectype 1
Ok
U1.00> get connectype
Connection Type: UDP
Ok
U1.00>
```

2-5-25 set transmitimer , get transmitimer

Transmitter timer setting

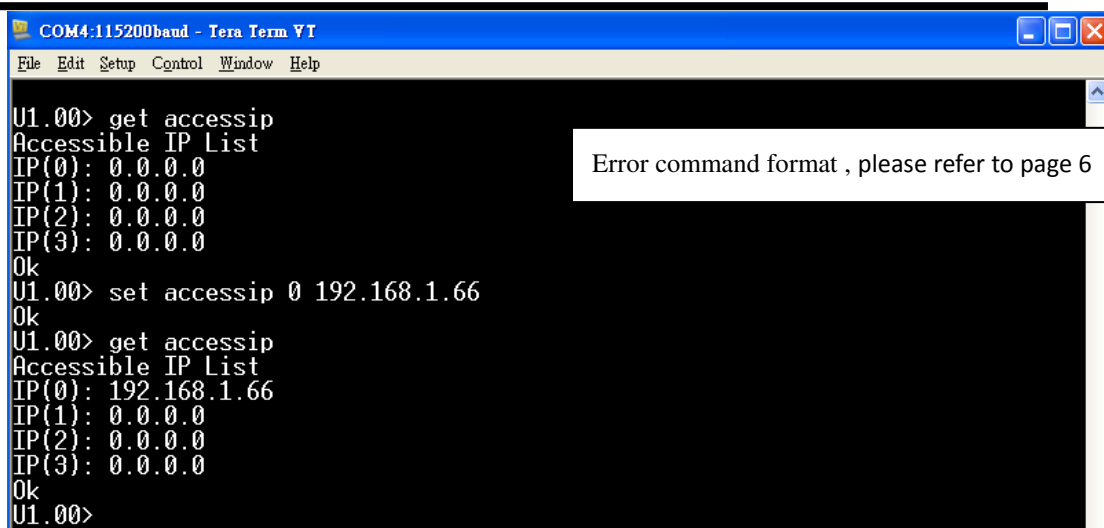


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get transmitimer
Transmit Timer: 200
Ok
U1.00> set transmitimer 100
Ok
U1.00> get transmitimer
Transmit Timer: 100
Ok
U1.00> █
```

2-5-26 set accessip , get accessip

Accessible IP List

WiFi to Serial gateway command set

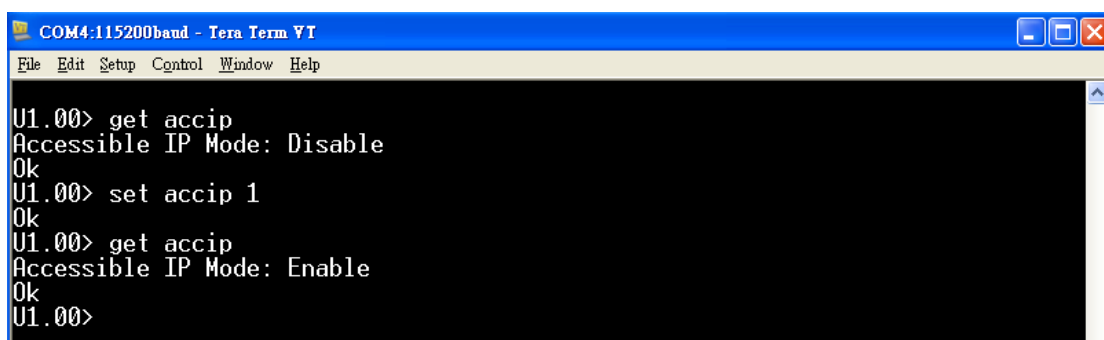


```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get accessip
Accessible IP List
IP(0): 0.0.0.0
IP(1): 0.0.0.0
IP(2): 0.0.0.0
IP(3): 0.0.0.0
Ok
U1.00> set accessip 0 192.168.1.66
Ok
U1.00> get accessip
Accessible IP List
IP(0): 192.168.1.66
IP(1): 0.0.0.0
IP(2): 0.0.0.0
IP(3): 0.0.0.0
Ok
U1.00>
```

Error command format , please refer to page 6

2-5-27 set accip , get accip

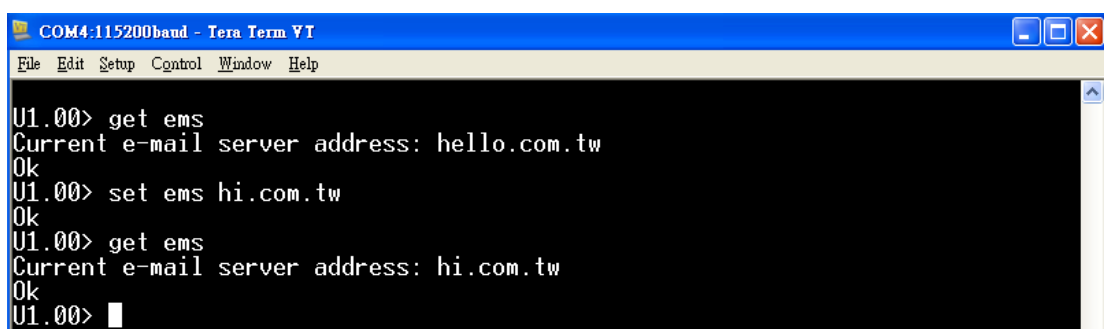
Accessible IP Mode: Enable



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get accip
Accessible IP Mode: Disable
Ok
U1.00> set accip 1
Ok
U1.00> get accip
Accessible IP Mode: Enable
Ok
U1.00>
```

2-5-28 set ems , get ems

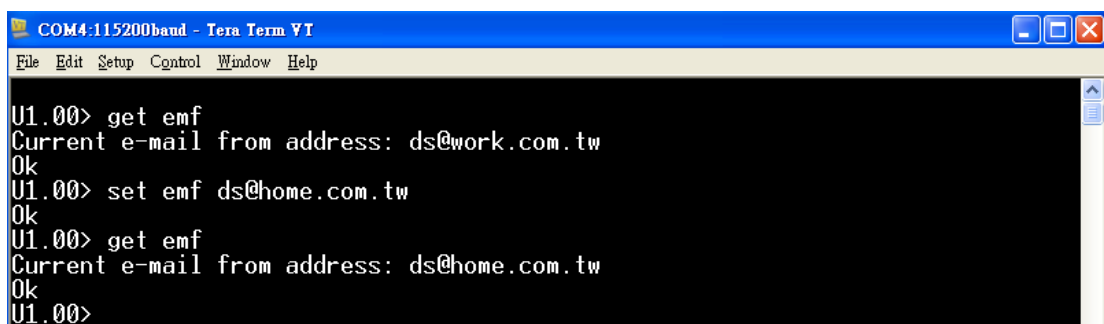
Current e-mail server address: XXX.com.tw



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get ems
Current e-mail server address: hello.com.tw
Ok
U1.00> set ems hi.com.tw
Ok
U1.00> get ems
Current e-mail server address: hi.com.tw
Ok
U1.00> █
```

2-5-29 set emf , get emf

Current e-mail from address



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get emf
Current e-mail from address: ds@work.com.tw
Ok
U1.00> set emf ds@home.com.tw
Ok
U1.00> get emf
Current e-mail from address: ds@home.com.tw
Ok
U1.00>
```


- 2-5-30 set emt1 , get emt1
- set emt2 , get emt2
- set emt3 , get emt3
- Current e-mail to1 address

```
COM4:115200band - Tera Term VI
File Edit Setup Control Window Help
U1.00> get emt1
Current e-mail to1 address: to1@work.com.tw
Ok
U1.00> set emt1 to1@home.com.tw
Ok
U1.00> get emt1
Current e-mail to1 address: to1@home.com.tw
Ok
U1.00>
```

- 2-5-31 set aw , get aw
- Auto Warning Settings

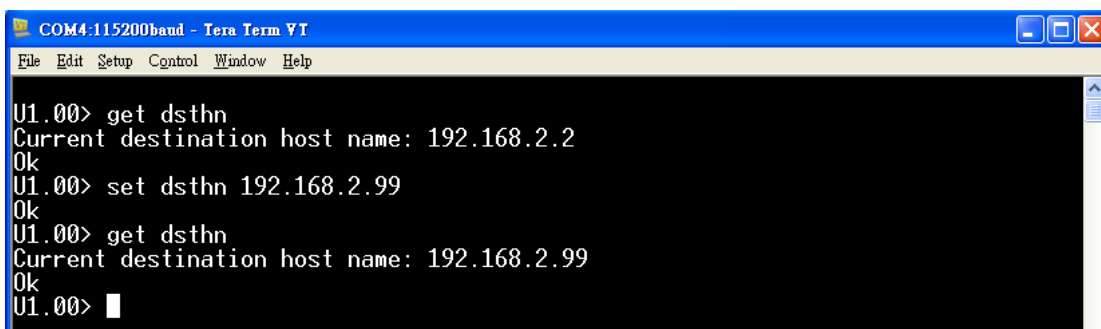
```
COM4:115200band - Tera Term VI
File Edit Setup Control Window Help
U1.00> get aw
Auto Warning Settings:
Cold start auto warning:      Disable
Authentication fail auto warning: Disable
Local IP changed auto warning: Disable
Password changed auto warning: Disable
Ok
U1.00> set aw 1
Error
U1.00> set aw 1 1 1 1
Ok
U1.00> get aw
Auto Warning Settings:
Cold start auto warning:      Enable
Authentication fail auto warning: Enable
Local IP changed auto warning: Enable
Password changed auto warning: Enable
Ok
U1.00> set aw 0 0 0 0
Ok
U1.00>
```

- 2-5-32 set rs485 , get rs485
- RS485 mode set

```
COM4:115200band - Tera Term VI
File Edit Setup Control Window Help
U1.00> set rs485
Unknown command set
U1.00> get rs485
RS 485 mode 1
Ok
U1.00> set rs485 0
Ok
U1.00> get rs485
RS 485 mode 0
Ok
U1.00>
```

2-5-33 set dsthn , get dsthn

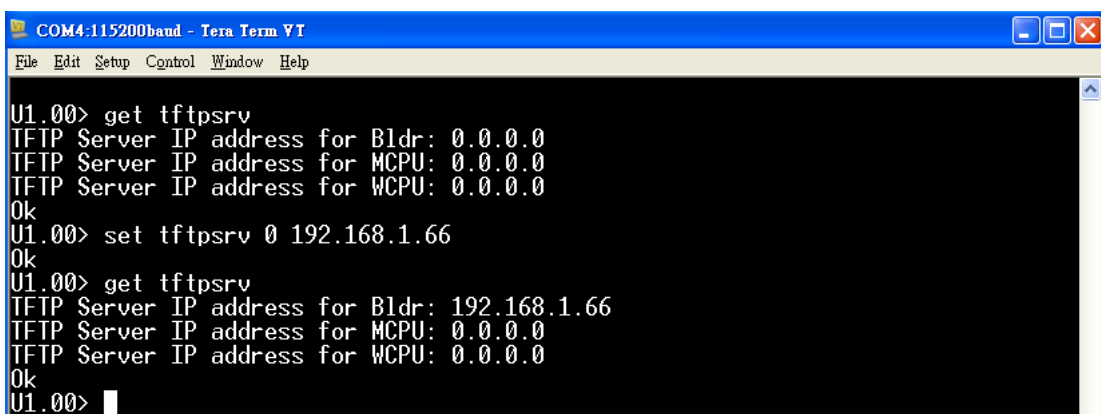
Assign host IP address



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dsthn
Current destination host name: 192.168.2.2
Ok
U1.00> set dsthn 192.168.2.99
Ok
U1.00> get dsthn
Current destination host name: 192.168.2.99
Ok
U1.00> █
```

2-5-34 set tftpsrv , get tftpsrv

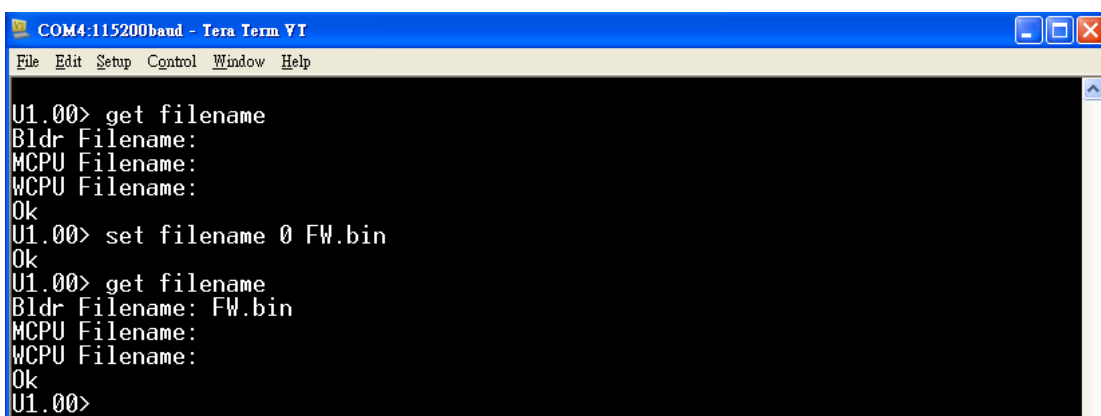
Firmware upgrade server address



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get tftpsrv
TFTP Server IP address for Bldr: 0.0.0.0
TFTP Server IP address for MCPU: 0.0.0.0
TFTP Server IP address for WCPU: 0.0.0.0
Ok
U1.00> set tftpsrv 0 192.168.1.66
Ok
U1.00> get tftpsrv
TFTP Server IP address for Bldr: 192.168.1.66
TFTP Server IP address for MCPU: 0.0.0.0
TFTP Server IP address for WCPU: 0.0.0.0
Ok
U1.00> █
```

2-5-35 set filename , get filename

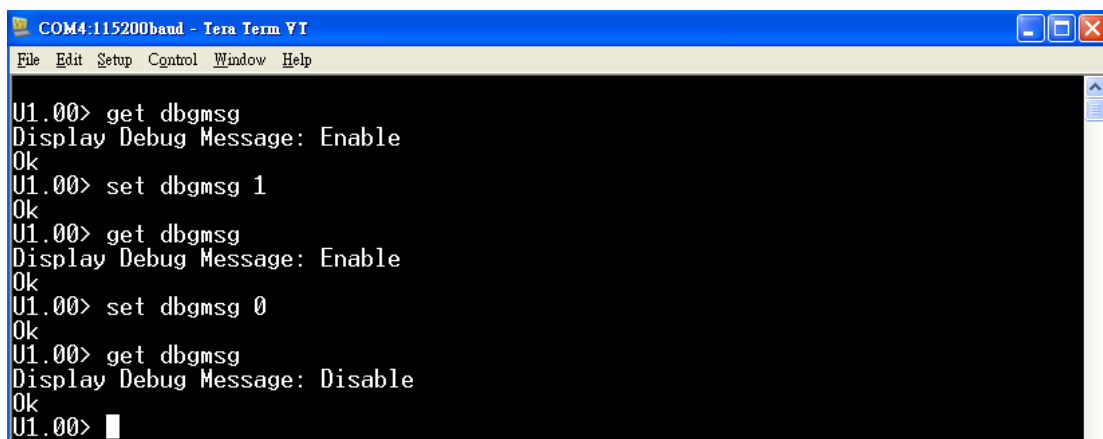
Firmware upgrade file name



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get filename
Bldr Filename:
MCPU Filename:
WCPU Filename:
Ok
U1.00> set filename 0 FW.bin
Ok
U1.00> get filename
Bldr Filename: FW.bin
MCPU Filename:
WCPU Filename:
Ok
U1.00> █
```

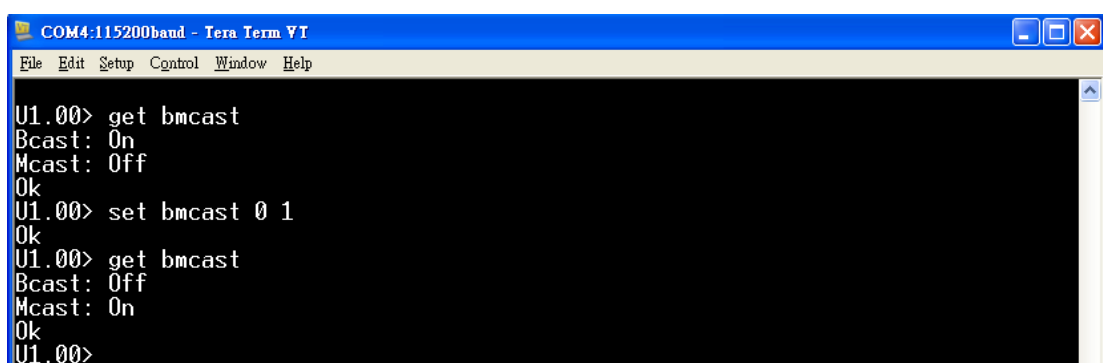
2-5-36 set dbgmsg , get dbgmsg

Display Debug Message



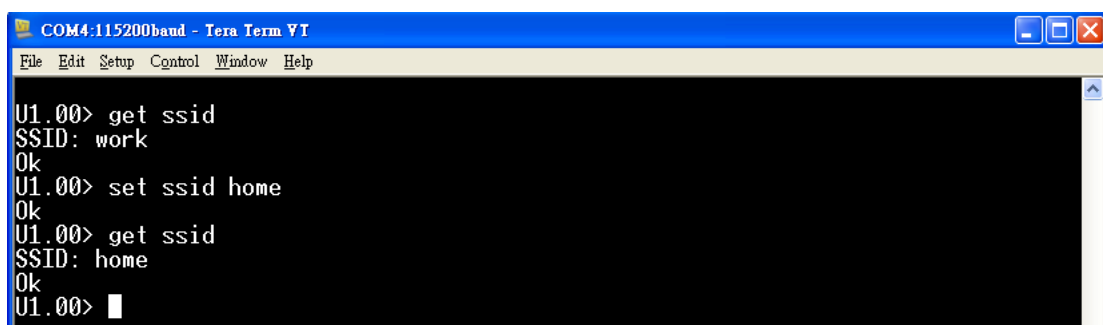
```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get dbgmsg
Display Debug Message: Enable
Ok
U1.00> set dbgmsg 1
Ok
U1.00> get dbgmsg
Display Debug Message: Enable
Ok
U1.00> set dbgmsg 0
Ok
U1.00> get dbgmsg
Display Debug Message: Disable
Ok
U1.00> █
```

2-5-37 set bmcst , get bmcst
Bcast/Mcast ON/OFF



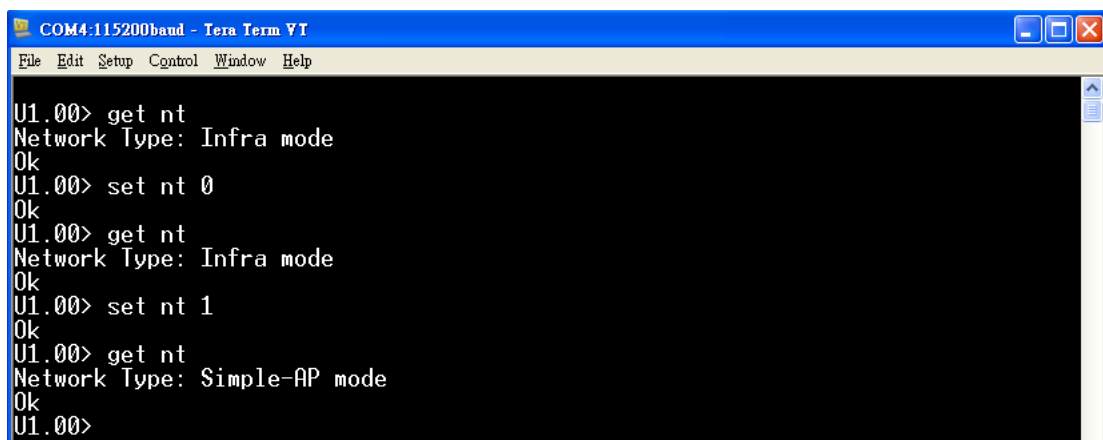
```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get bmcst
Bcast: On
Mcast: Off
Ok
U1.00> set bmcst 0 1
Ok
U1.00> get bmcst
Bcast: Off
Mcast: On
Ok
U1.00> █
```

2-5-38 set ssid , get ssid
SSID setting



```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get ssid
SSID: work
Ok
U1.00> set ssid home
Ok
U1.00> get ssid
SSID: home
Ok
U1.00> █
```

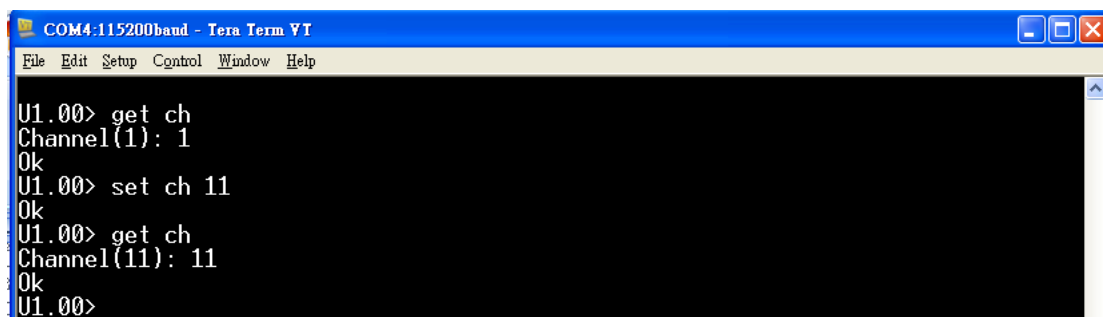
2-5-39 set nt , get nt
Ad-hoc / Infrastructurt mode setting



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get nt
Network Type: Infra mode
Ok
U1.00> set nt 0
Ok
U1.00> get nt
Network Type: Infra mode
Ok
U1.00> set nt 1
Ok
U1.00> get nt
Network Type: Simple-AP mode
Ok
U1.00>
```

2-5-40 set ch , get ch

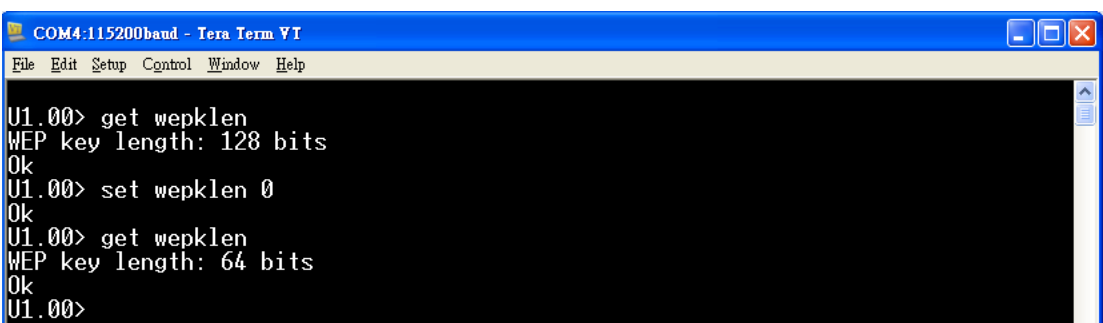
Channel setting



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get ch
Channel(1): 1
Ok
U1.00> set ch 11
Ok
U1.00> get ch
Channel(11): 11
Ok
U1.00>
```

2-5-41 set wepken , get wepken

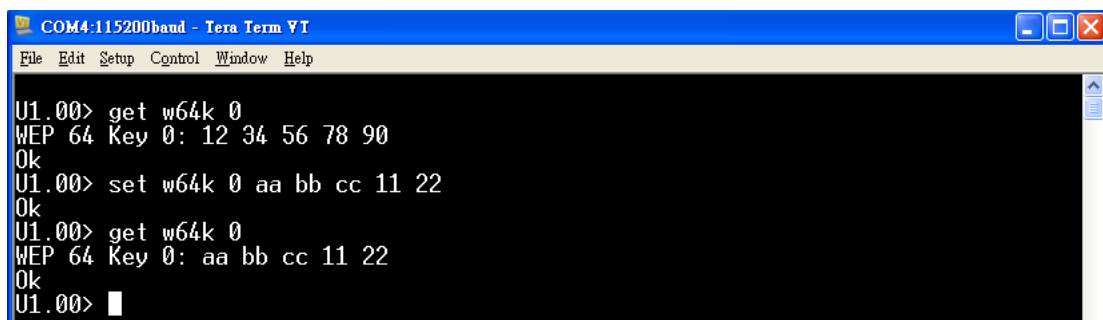
Wireless network Encryption



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get wepken
WEP key length: 128 bits
Ok
U1.00> set wepken 0
Ok
U1.00> get wepken
WEP key length: 64 bits
Ok
U1.00>
```

2-5-42 set w64k , get w64k

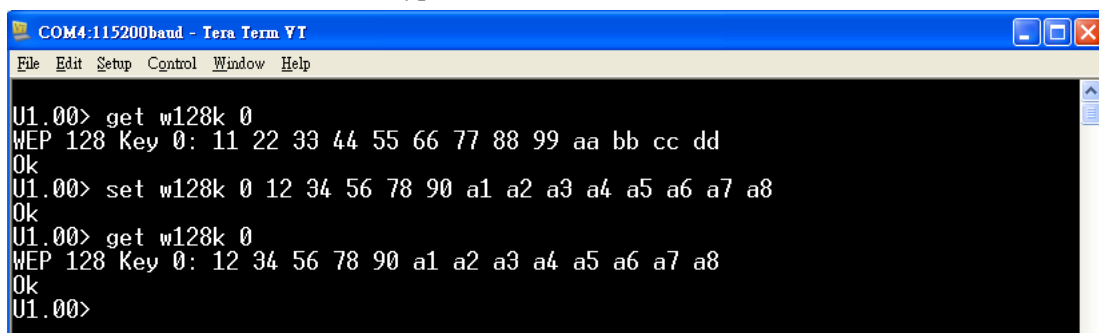
Wireless network Encryption



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get w64k 0
WEP 64 Key 0: 12 34 56 78 90
Ok
U1.00> set w64k 0 aa bb cc 11 22
Ok
U1.00> get w64k 0
WEP 64 Key 0: aa bb cc 11 22
Ok
U1.00> █
```

2-5-43 set w128k , get w128k

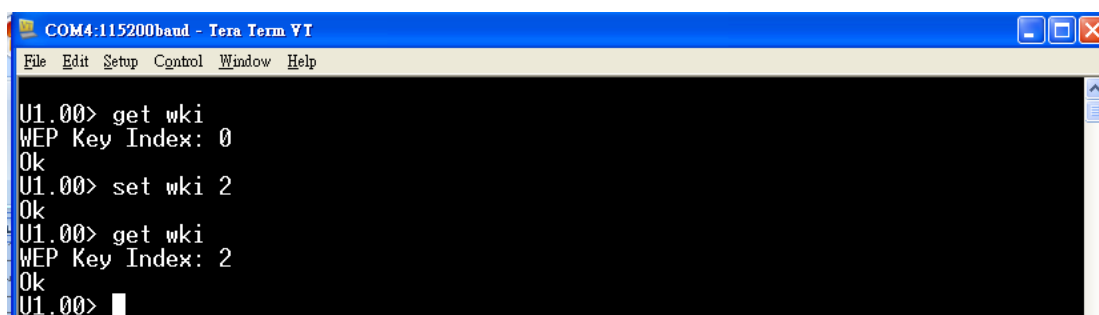
Wireless network Encryption



```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get w128k 0
WEP 128 Key 0: 11 22 33 44 55 66 77 88 99 aa bb cc dd
Ok
U1.00> set w128k 0 12 34 56 78 90 a1 a2 a3 a4 a5 a6 a7 a8
Ok
U1.00> get w128k 0
WEP 128 Key 0: 12 34 56 78 90 a1 a2 a3 a4 a5 a6 a7 a8
Ok
U1.00>
```

2-5-44 set wki , get wki

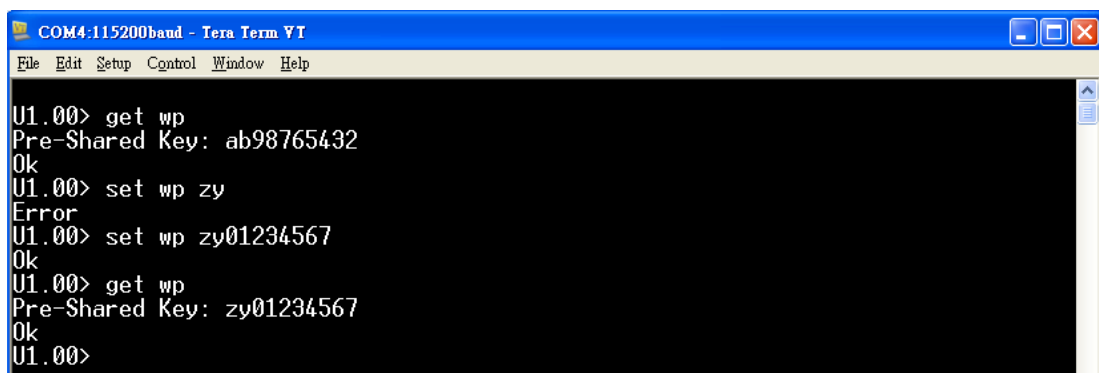
WEP Key Index



```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get wki
WEP Key Index: 0
Ok
U1.00> set wki 2
Ok
U1.00> get wki
WEP Key Index: 2
Ok
U1.00> █
```

2-5-45 set wp , get wp

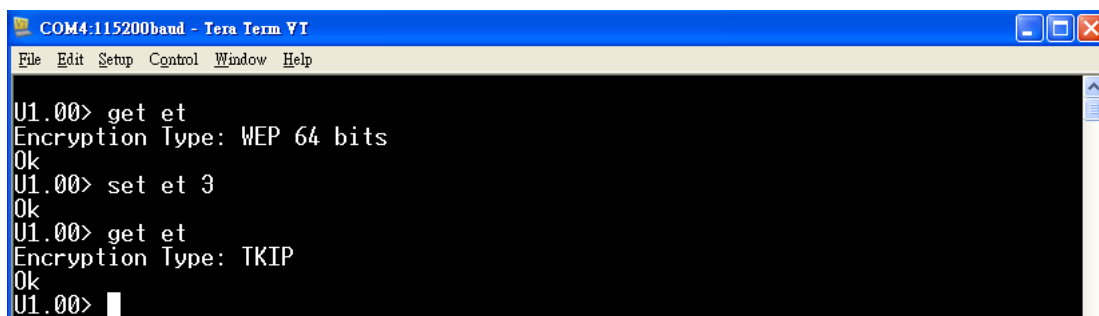
Wireless network Encryption cipher



```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get wp
Pre-Shared Key: ab98765432
Ok
U1.00> set wp zy
Error
U1.00> set wp zy01234567
Ok
U1.00> get wp
Pre-Shared Key: zy01234567
Ok
U1.00>
```

2-5-46 set et , get et

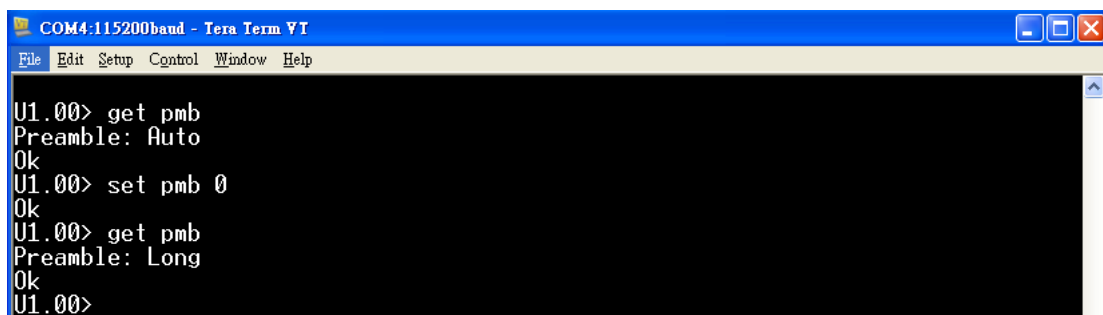
Encryption type



```
COM4:115200baud - Tera Term V1
File Edit Setup Control Window Help
U1.00> get et
Encryption Type: WEP 64 bits
Ok
U1.00> set et 3
Ok
U1.00> get et
Encryption Type: TKIP
Ok
U1.00> █
```

2-5-47 set pmb , get pmb

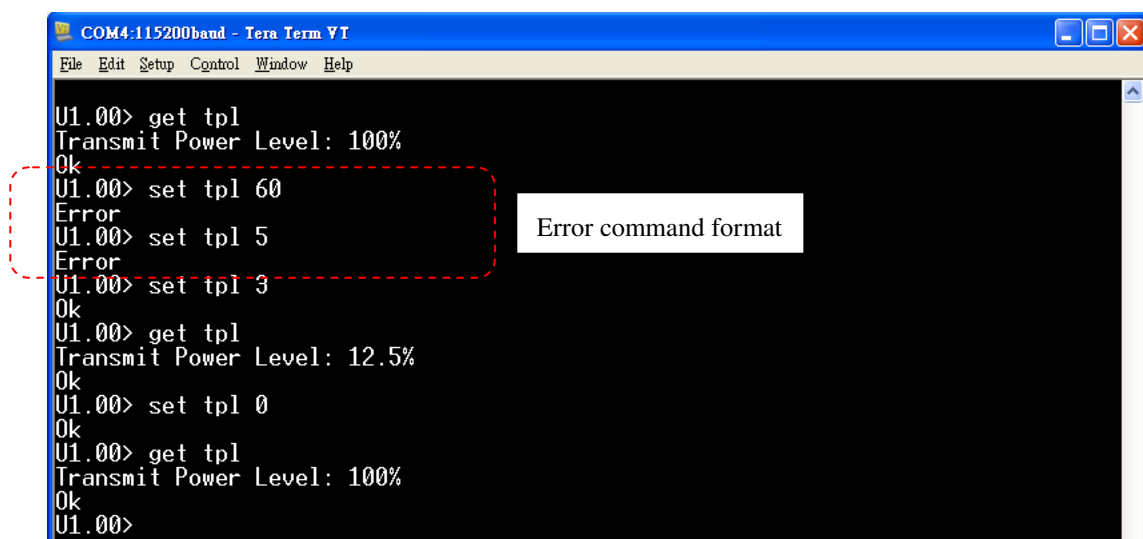
Long Preamble



```
COM4:115200band - Tera Term V1
File Edit Setup Control Window Help
U1.00> get pmb
Preamble: Auto
Ok
U1.00> set pmb 0
Ok
U1.00> get pmb
Preamble: Long
Ok
U1.00>
```

2-5-48 set tpl , get tpl

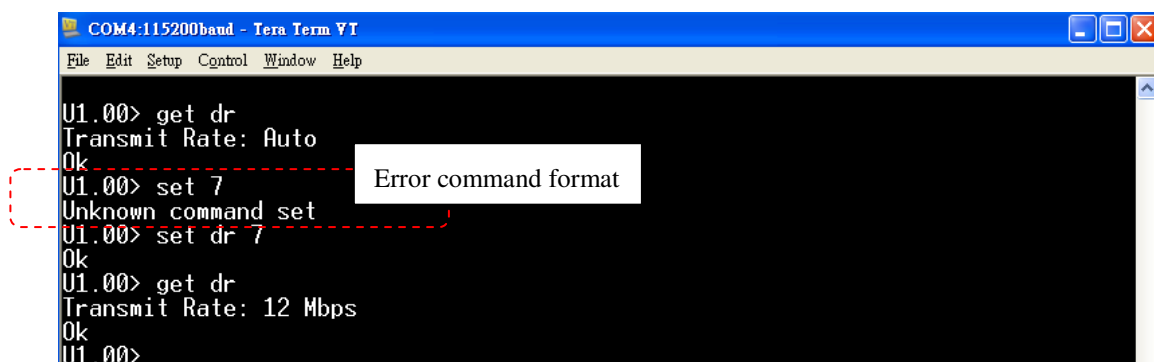
Power level percentage



```
COM4:115200band - Tera Term V1
File Edit Setup Control Window Help
U1.00> get tpl
Transmit Power Level: 100%
Ok
U1.00> set tpl 60
Error
U1.00> set tpl 5
Error
U1.00> set tpl 3
Ok
U1.00> get tpl
Transmit Power Level: 12.5%
Ok
U1.00> set tpl 0
Ok
U1.00> get tpl
Transmit Power Level: 100%
Ok
U1.00>
```

2-5-49 set dr , get dr

Data rate setting

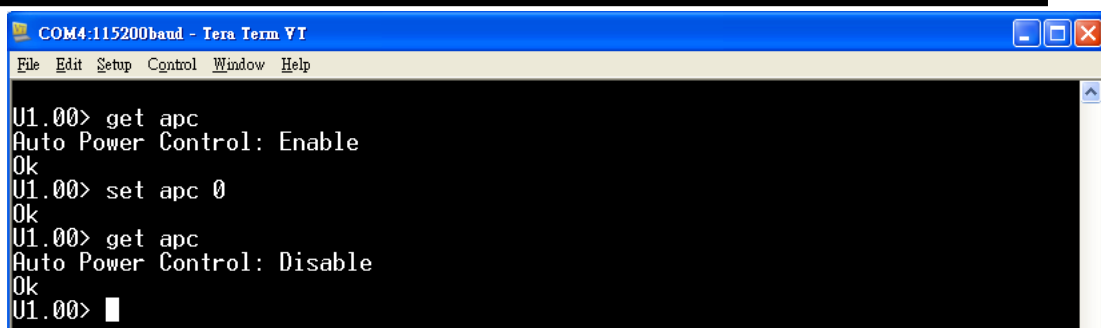


```
COM4:115200band - Tera Term V1
File Edit Setup Control Window Help
U1.00> get dr
Transmit Rate: Auto
Ok
U1.00> set 7
Unknown command set
U1.00> set dr 7
Ok
U1.00> get dr
Transmit Rate: 12 Mbps
Ok
U1.00>
```

2-5-50 set apc , get apc

Auto power control ON/OFF

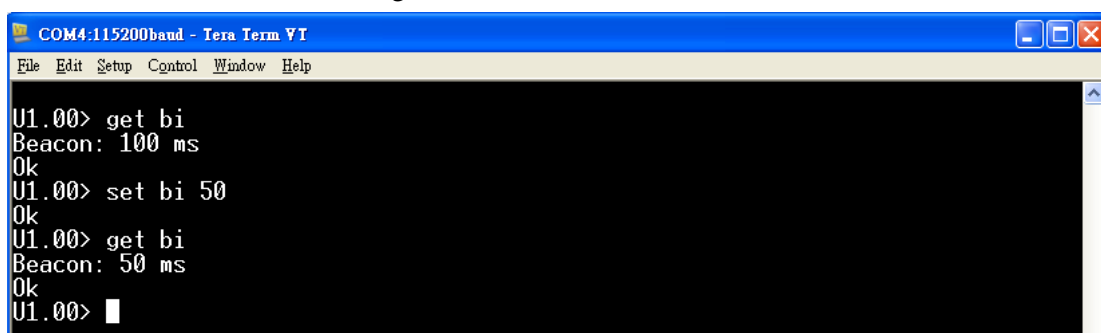
WiFi to Serial gateway command set



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get apc
Auto Power Control: Enable
Ok
U1.00> set apc 0
Ok
U1.00> get apc
Auto Power Control: Disable
Ok
U1.00>
```

2-5-51 set bi , get bi

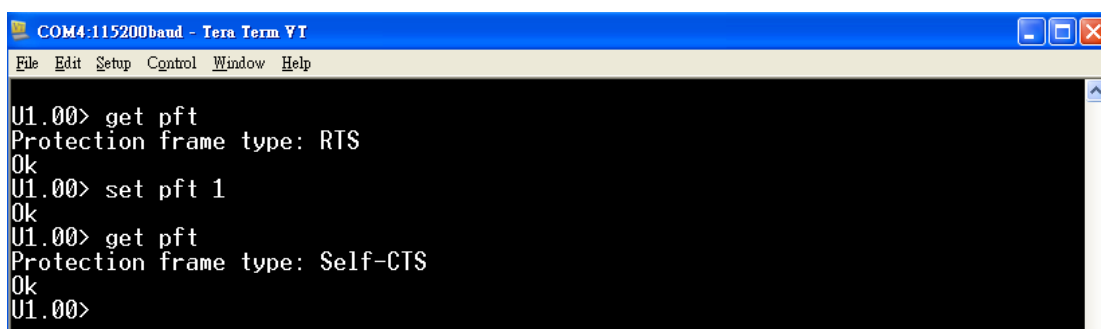
Beacon interval setting in mini second



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get bi
Beacon: 100 ms
Ok
U1.00> set bi 50
Ok
U1.00> get bi
Beacon: 50 ms
Ok
U1.00>
```

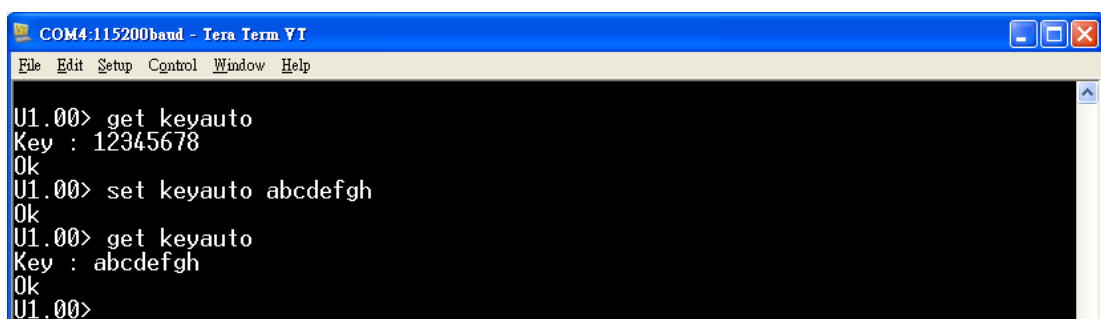
2-5-52 set pft , get pft

Protection frame type



```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get pft
Protection frame type: RTS
Ok
U1.00> set pft 1
Ok
U1.00> get pft
Protection frame type: Self-CTS
Ok
U1.00>
```

2-5-53 set keyauto , get keyauto

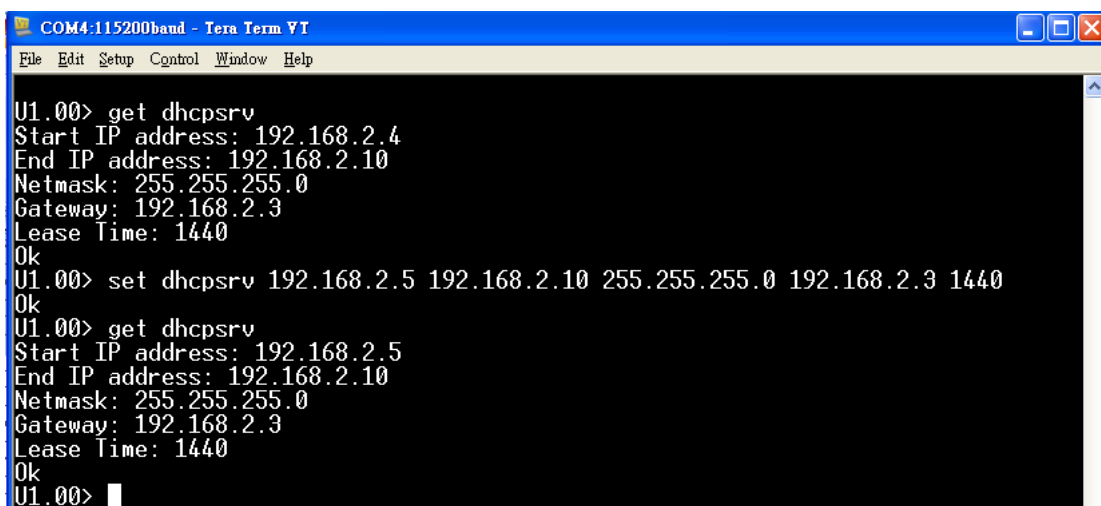


```
COM4:115200baud - Tera Term VI
File Edit Setup Control Window Help
U1.00> get keyauto
Key : 12345678
Ok
U1.00> set keyauto abcdefgh
Ok
U1.00> get keyauto
Key : abcdefgh
Ok
U1.00>
```

2-5-54 set dhcpsrv , get dhcpsrv

DHCP server setting

WiFi to Serial gateway command set



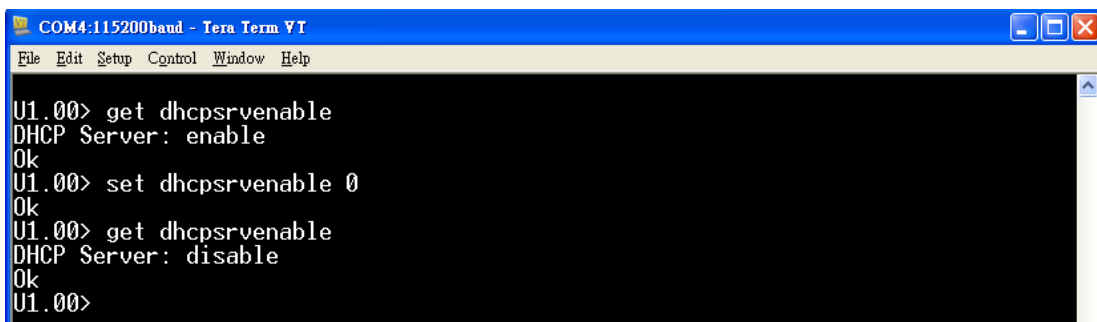
```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dhcprsv
Start IP address: 192.168.2.4
End IP address: 192.168.2.10
Netmask: 255.255.255.0
Gateway: 192.168.2.3
Lease Time: 1440
Ok
U1.00> set dhcprsv 192.168.2.5 192.168.2.10 255.255.255.0 192.168.2.3 1440
Ok
U1.00> get dhcprsv
Start IP address: 192.168.2.5
End IP address: 192.168.2.10
Netmask: 255.255.255.0
Gateway: 192.168.2.3
Lease Time: 1440
Ok
U1.00> █
```

The DHCP Server Setting tab provides following parameters:

Field	Description
Start IP Address	The start IP address to offer to DHCP client.
End IP Address	The end IP address to offer to DHCP client.
Netmask	The subnet mask to offer to DHCP client.
Gateway	The default gateway to offer to DHCP client.
Lease Time	The time period that the offered IP address is valid.

2-5-55 set dhcprsvenable , get dhcprsvenable

DHCP server enable



```
COM4:115200band - Tera Term VT
File Edit Setup Control Window Help
U1.00> get dhcprsvenable
DHCP Server: enable
Ok
U1.00> set dhcprsvenable 0
Ok
U1.00> get dhcprsvenable
DHCP Server: disable
Ok
U1.00>
```