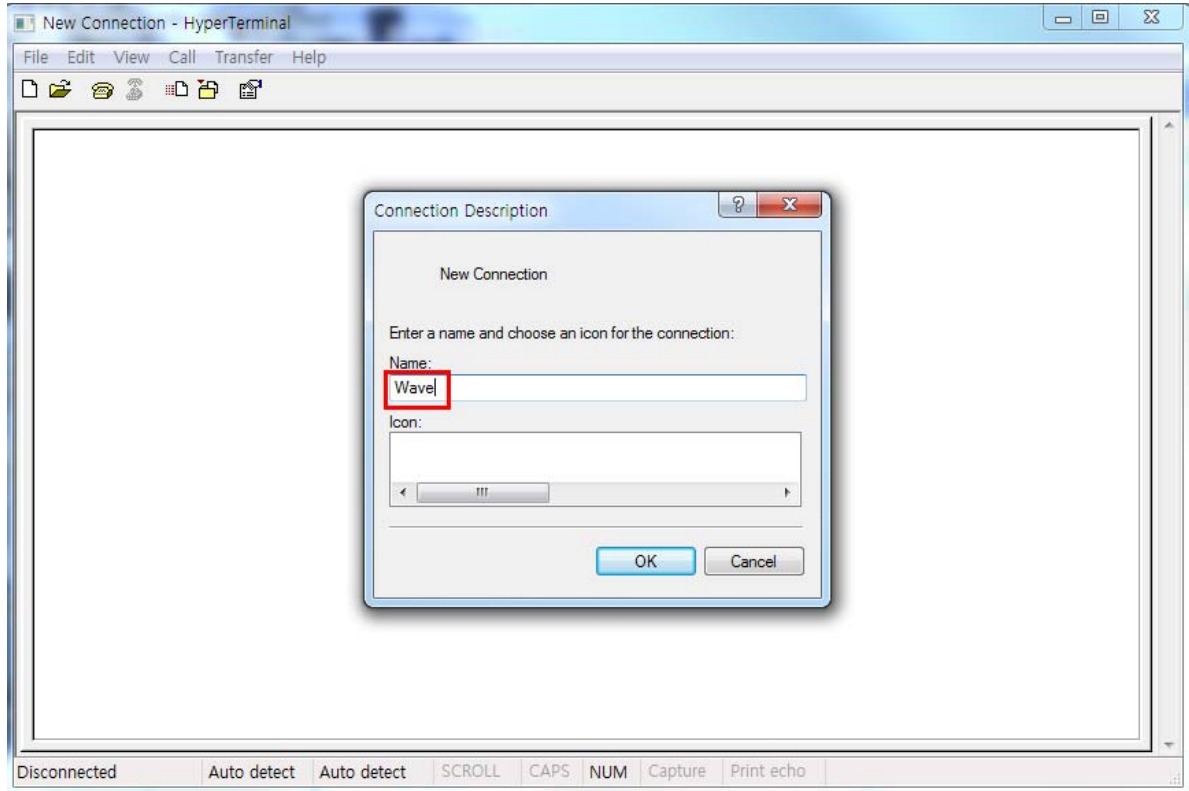


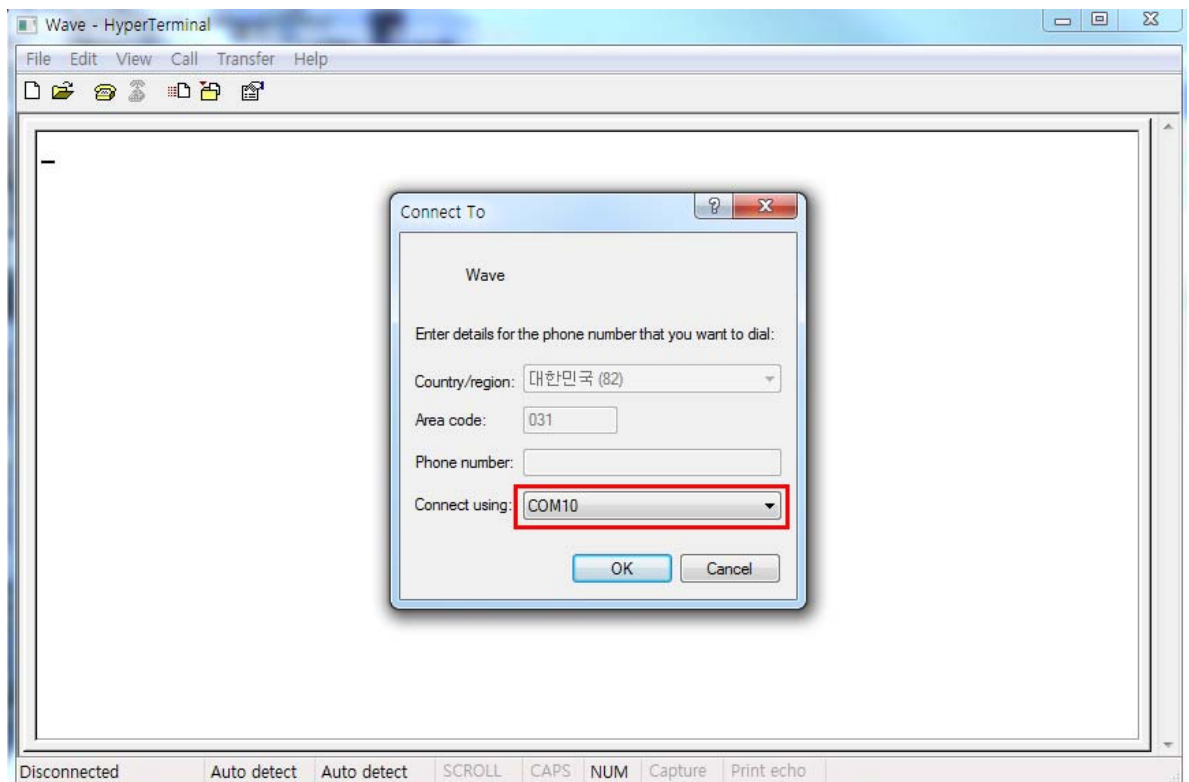
# WAVE RSE EEPROM Setting

## 1. Terminal Access

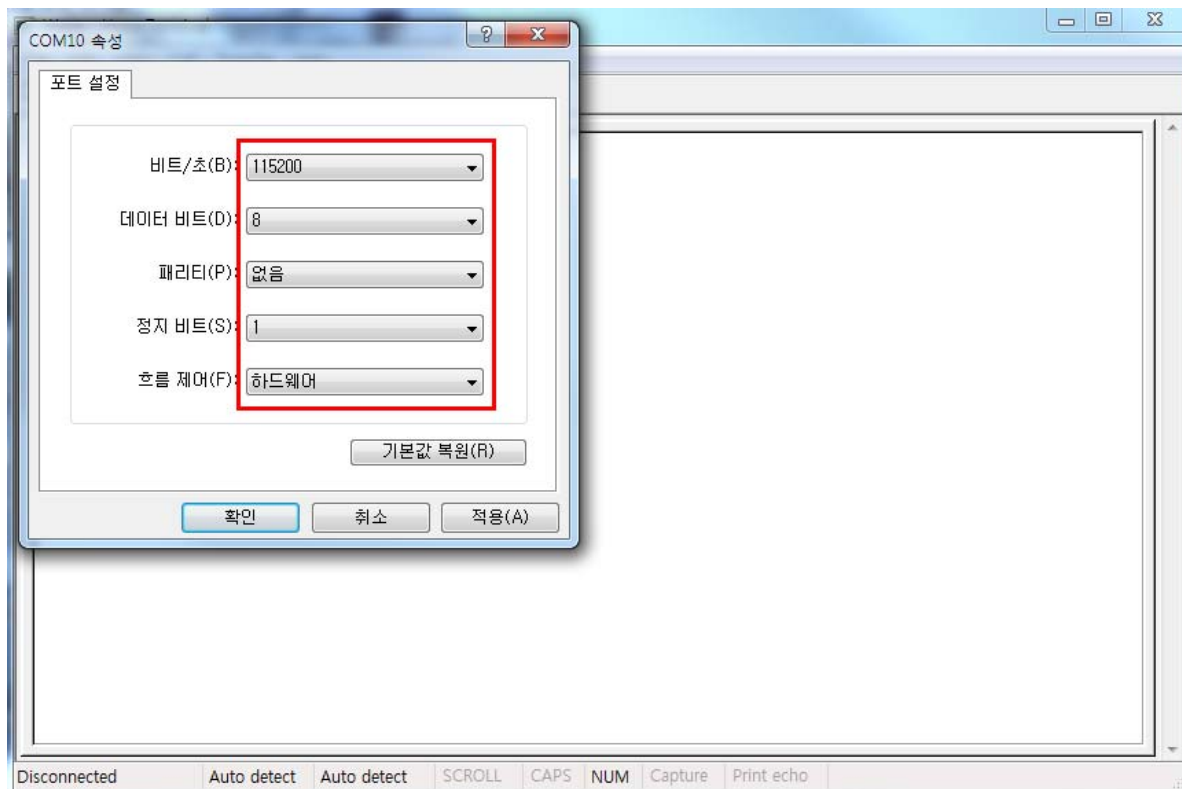
1.1 Connect the notebook with the RSE using USB to Serial cable and execute HyperTerminal program.



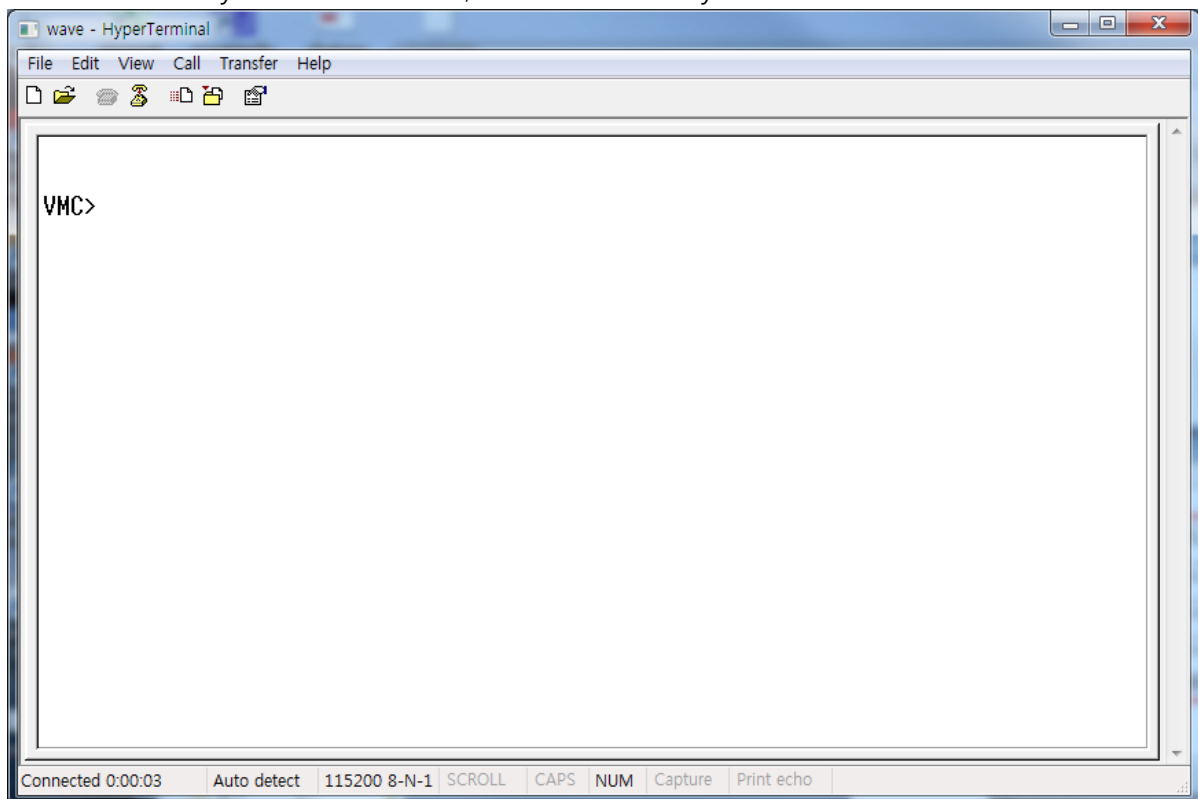
## 1.2 Setting up COM Port



### 1.3 Port Setting

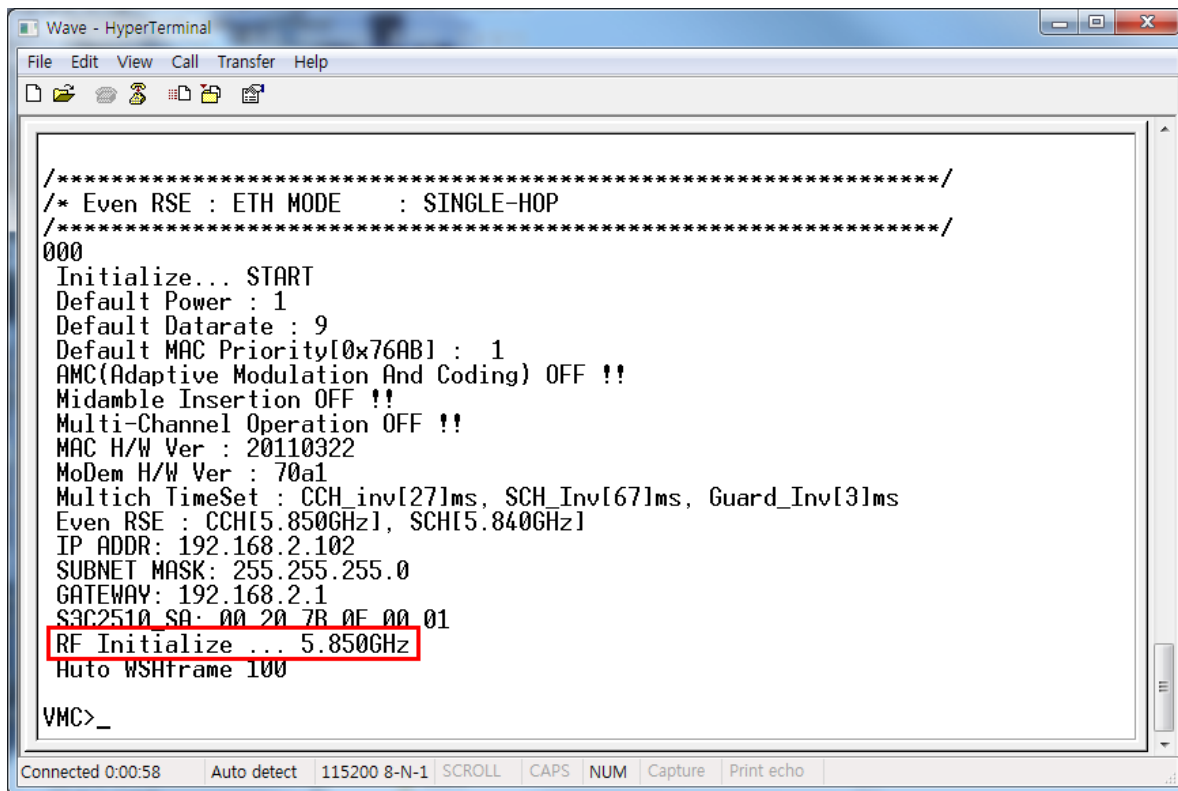


1.4 Hit the "Enter" key to show " VMC> ", which means ready.



## 2. Frequency Change

### 2.1 Verify Frequency



```
Wave - HyperTerminal
File Edit View Call Transfer Help

/*****
/* Even RSE : ETH MODE : SINGLE-HOP
*****/
000
Initialize... START
Default Power : 1
Default Datarate : 9
Default MAC Priority[0x76AB] : 1
AMC(Adaptive Modulation And Coding) OFF !!
Midamble Insertion OFF !!
Multi-Channel Operation OFF !!
MAC H/W Ver : 20110322
MoDem H/W Ver : 70a1
Multich TimeSet : CCH Inv[27]ms, SCH Inv[67]ms, Guard_Inv[3]ms
Even RSE : CCH[5.850GHz], SCH[5.840GHz]
IP ADDR: 192.168.2.102
SUBNET MASK: 255.255.255.0
GATEWAY: 192.168.2.1
S3C2510 SA: 00 20 7B 0F 00 01
RF Initialize ... 5.850GHz
Auto WSHframe 100

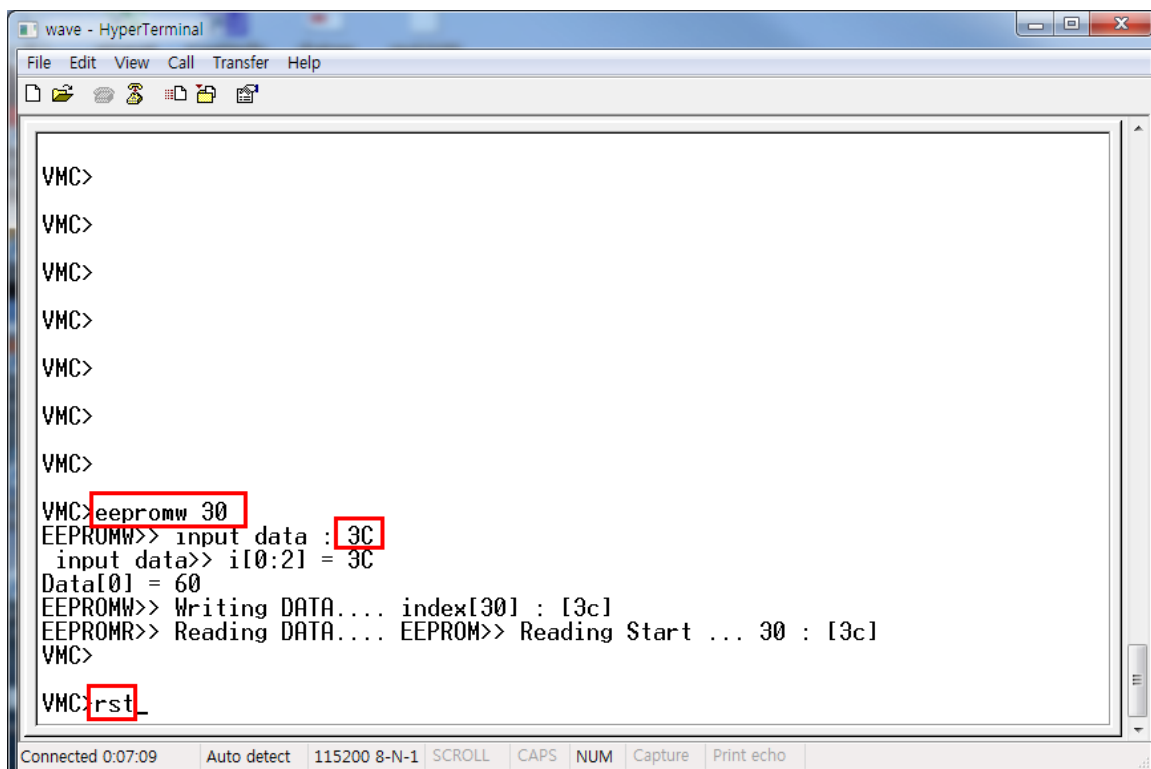
VMC>_

Connected 0:00:58 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

### 2.2 Frequency Change

Change EEPROM address 30 using the command "eepromw", here to 5.860. Ex) 5.840=0x28, 5.850=0x32, 5.860=0x3C, 5.870=0x46, 5.880=0x50 ... Refer to the details in the EEPROM MAP on the last ending page.

After changing the value, reboot the system using the command "rst".

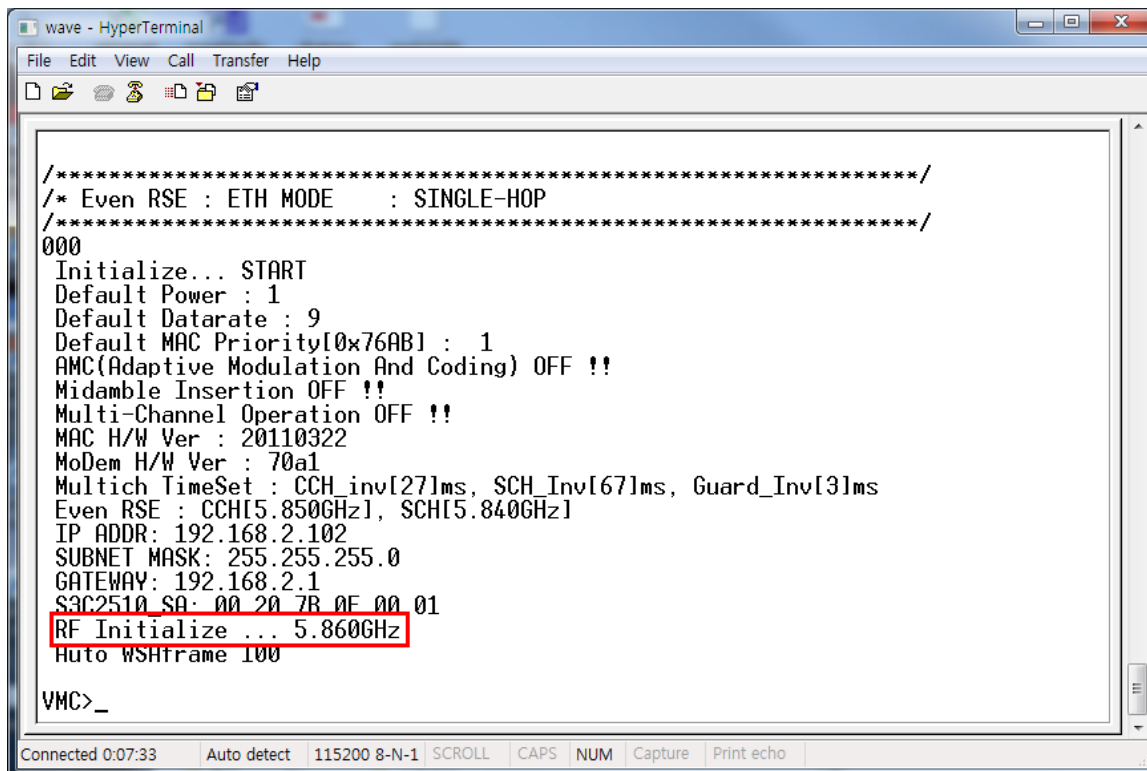


```
Wave - HyperTerminal
File Edit View Call Transfer Help

VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>eepromw 30
EEPROMW>> input data : 3C
input data>> i[0:2] = 3C
Data[0] = 60
EEPROMW>> Writing DATA.... index[30] : [3c]
EEPROMR>> Reading DATA.... EEPROM>> Reading Start ... 30 : [3c]
VMC>
VMC>rst_

Connected 0:07:09 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

## 2.3 Verify Frequency Change



The image shows a HyperTerminal window titled 'wave - HyperTerminal'. The window contains a series of initialization commands and their outputs. The text is as follows:

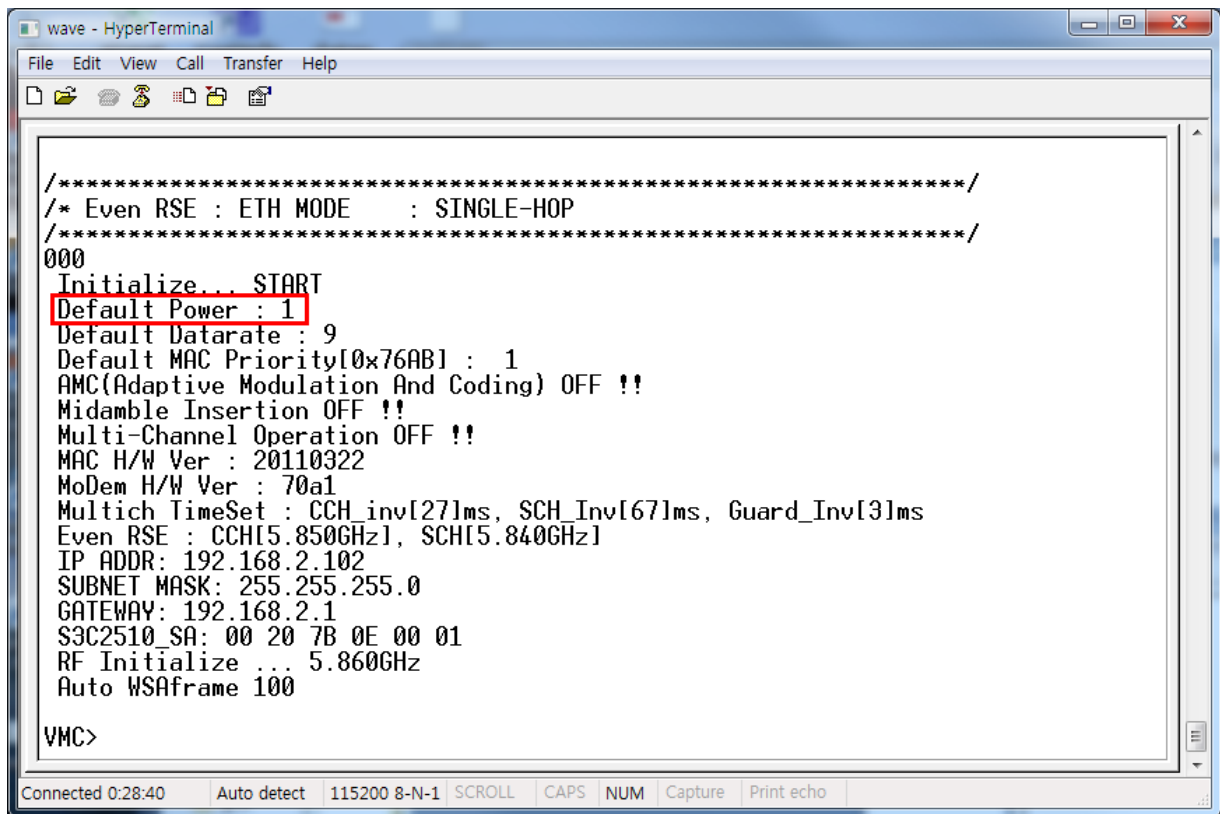
```
/* **** */
/* Even RSE : ETH MODE      : SINGLE-HOP
/* **** */
000
Initialize... START
Default Power : 1
Default Datarate : 9
Default MAC Priority[0x76AB] : 1
AMC(Adaptive Modulation And Coding) OFF !!
Midamble Insertion OFF !!
Multi-Channel Operation OFF !!
MAC H/W Ver : 20110322
MoDem H/W Ver : 70a1
Multich TimeSet : CCH_inv[27]ms, SCH_Inv[67]ms, Guard_Inv[3]ms
Even RSE : CCH[5.850GHz], SCH[5.840GHz]
IP ADDR: 192.168.2.102
SUBNET MASK: 255.255.255.0
GATEWAY: 192.168.2.1
S3C2510_SA: 00 20 7B 0E 00 01
RF Initialize ... 5.860GHz
Auto WSHframe 100

VMC>_
```

At the bottom of the window, there is a status bar with the following information: 'Connected 0:07:33', 'Auto detect', '115200 8-N-1', 'SCROLL', 'CAPS', 'NUM', 'Capture', and 'Print echo'.

### 3. Power Change

#### 3.1 Verify the power



A screenshot of a HyperTerminal window titled 'wave - HyperTerminal'. The window displays the output of a device initialization process. The text is as follows:

```
/* **** */
/* * Even RSE : ETH MODE      : SINGLE-HOP
/* **** */
000
Initialize... START
Default Power : 1
Default Datarate : 9
Default MAC Priority[0x76AB] : 1
AMC(Adaptive Modulation And Coding) OFF !!
Midamble Insertion OFF !!
Multi-Channel Operation OFF !!
MAC H/W Ver : 20110322
MoDem H/W Ver : 70a1
Multich TimeSet : CCH_inv[27]ms, SCH_Inv[67]ms, Guard_Inv[3]ms
Even RSE : CCH[5.850GHz], SCH[5.840GHz]
IP ADDR: 192.168.2.102
SUBNET MASK: 255.255.255.0
GATEWAY: 192.168.2.1
S3C2510_SA: 00 20 7B 0E 00 01
RF Initialize ... 5.860GHz
Auto WSAframe 100

VMC>
```

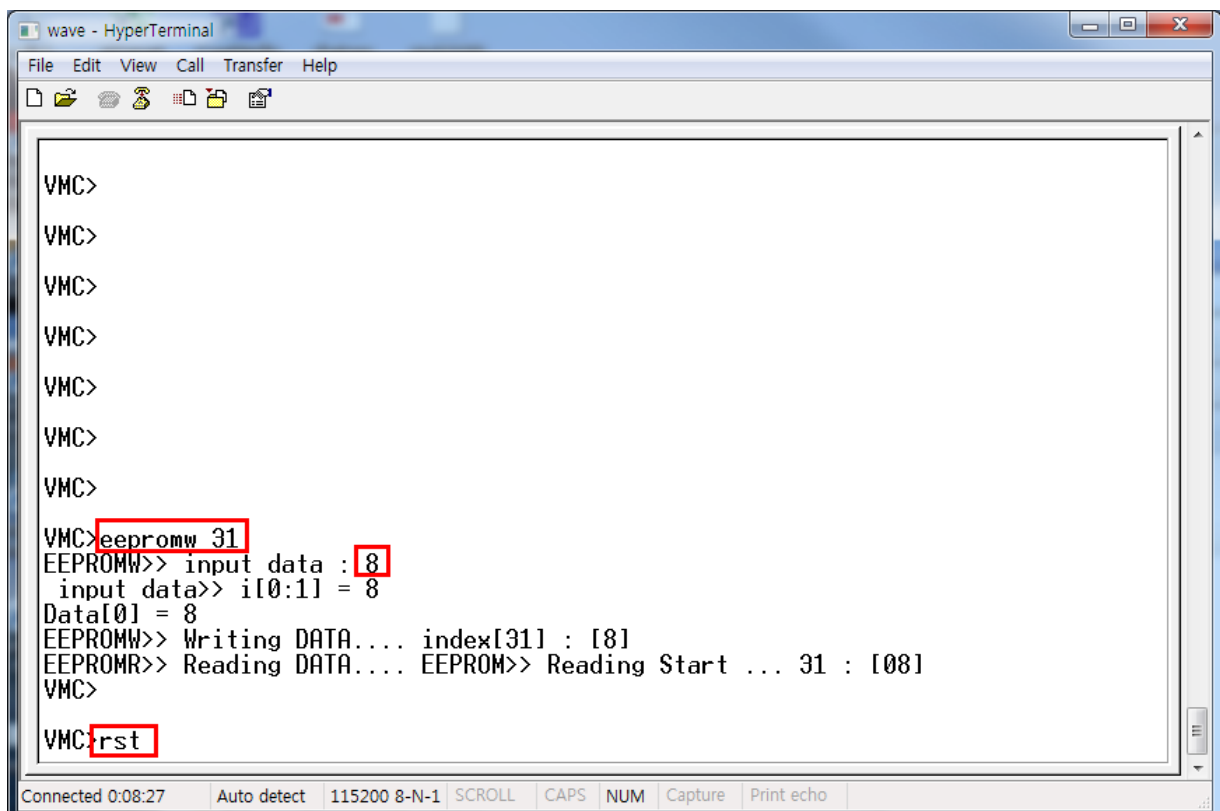
The status bar at the bottom shows 'Connected 0:28:40', 'Auto detect', '115200 8-N-1', 'SCROLL', 'CAPS', 'NUM', 'Capture', and 'Print echo'.

#### 3.2 Power Change

Change the EEPROM address 31 using the command "eepromw", here to 8.

Ex) 1~8 Refer to the details in the EEPROM MAP on the last ending page.

After changing the value, reboot the system using the command "rst".

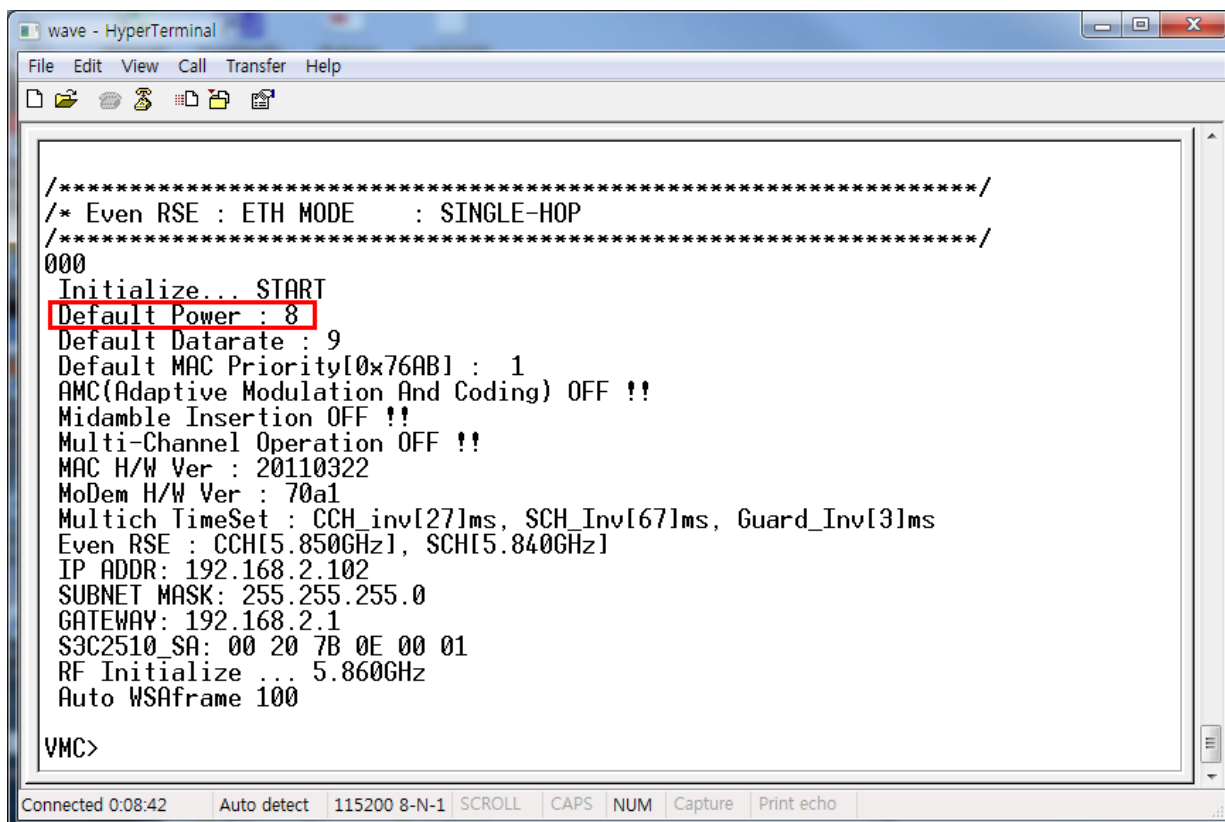


A screenshot of a HyperTerminal window titled 'wave - HyperTerminal'. The window shows a series of 'VMC>' prompts and the execution of the 'eepromw' command. The text is as follows:

```
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC>
VMC> eepromw 31
EEPROMW>> input data : 8
input data>> i[0:1] = 8
Data[0] = 8
EEPROMW>> Writing DATA.... index[31] : [8]
EEPROMR>> Reading DATA.... EEPROM>> Reading Start ... 31 : [08]
VMC>
VMC> rst
```

The status bar at the bottom shows 'Connected 0:08:27', 'Auto detect', '115200 8-N-1', 'SCROLL', 'CAPS', 'NUM', 'Capture', and 'Print echo'.

### 3.3 Verify Power Change



The image shows a HyperTerminal window titled 'wave - HyperTerminal'. The window contains a series of initialization messages from a device. The messages are as follows:

```
/******  
/* Even RSE : ETH MODE      : SINGLE-HOP  
/******  
000  
Initialize... START  
Default Power : 8  
Default Datarate : 9  
Default MAC Priority[0x76AB] : 1  
AMC(Adaptive Modulation And Coding) OFF !!  
Midamble Insertion OFF !!  
Multi-Channel Operation OFF !!  
MAC H/W Ver : 20110322  
MoDem H/W Ver : 70a1  
Multich TimeSet : CCH_inv[27]ms, SCH_Inv[67]ms, Guard_Inv[3]ms  
Even RSE : CCH[5.850GHz], SCH[5.840GHz]  
IP ADDR: 192.168.2.102  
SUBNET MASK: 255.255.255.0  
GATEWAY: 192.168.2.1  
S3C2510_SA: 00 20 7B 0E 00 01  
RF Initialize ... 5.860GHz  
Auto WSAframe 100  
  
VMC>
```

The status bar at the bottom of the window shows 'Connected 0:08:42' and several control buttons: 'Auto detect', '115200 8-N-1', 'SCROLL', 'CAPS', 'NUM', 'Capture', and 'Print echo'.

## EEPROM MAP

|                   |  |  |               |  |                  |  |          |  |                  |  |          |  |
|-------------------|--|--|---------------|--|------------------|--|----------|--|------------------|--|----------|--|
| EEPROM MAP        |  |  |               |  |                  |  |          |  |                  |  |          |  |
| offset:           | 10   |  |               |  |                  |  |          |  |                  |  |          |  |
|                   | VMC Src MAC Addr   |  |               |  |                  |  |          |  |                  |  |          |  |
| Octets:           | 6  |  |               |  |                  |  |          |  |                  |  |          |  |
|                   |  |  |               |  |                  |  |          |  |                  |  |          |  |
| offset:           | 16   |  | 17            |  |                  |  |          |  |                  |  |          |  |
|                   | Ethernet PHY Address                                       |  |               |  |                  |  |          |  |                  |  |          |  |
| Octets:           |  |  |               |  |                  |  |          |  |                  |  |          |  |
|                   | 01=0x01  |  | 02=0x02       |  |                  |  |          |  |                  |  |          |  |
|                   |  |  |               |  |                  |  |          |  |                  |  |          |  |
| offset:           | 18   |  |               |  | 22               |  |          |  | 26               |  |          |  |
|                   | RSE IP Addr  |  |               |  | RSE Subnet Mask  |  |          |  | RSE Gateway Addr |  |          |  |
| Octets:           |  |  |               |  | FF               |  | FF       |  | FF               |  | 0        |  |
|                   | 129=0x81   |  | 254=0xFE      |  | 81=0x51          |  | 162=0xA2 |  | 255=0xFF         |  | 255=0xFF |  |
|                   | 129=0x81   |  | 254=0xFE      |  | 94=0x5E          |  | 64=0x40  |  | 255=0xFF         |  | 255=0xFF |  |
|                   |  |  |               |  |                  |  |          |  |                  |  |          |  |
| offset:           | 30   |  | 31            |  | 32               |  | 33       |  | 34               |  | 35       |  |
|                   | default frequency  |  | default power |  | Datarate         |  | WSA Auto |  | MAC Priority     |  | AMC Auto |  |
| Octets:           | 1  |  | 1             |  | 1                |  | 1        |  | 1                |  | 1        |  |
| default frequency | 5,840=0x28, 5,850=0x32, 5,860=0x3C, 5,870=0x46, 5,880=0x50 |  |               |  |                  |  |          |  | default power    |  | 1~8      |  |
| default datarate  | 3 = 0x03   |  | 6 = 0x06      |  | 12=0x0C          |  | 24=0x18  |  | WSA Auto         |  | ON: 0x01 |  |
|                   | 4.5 =0x04  |  | 9 = 0x09      |  | 18=0x12          |  | 27=0x1B  |  | OFF:ELSE         |  | AMC Auto |  |
|                   |  |  |               |  |                  |  |          |  |                  |  |          |  |
| offset:           | 40   |  | 41            |  | 42               |  |          |  |                  |  |          |  |
|                   | OP_Mode: evenRSE(0x00)/ oddRSE(0x10)/ OBE(0x20)            |  | USB_OBE =0x01 |  | Multihop_ON=0x01 |  |          |  |                  |  |          |  |
| Octets:           | 1  |  | 1             |  | 1                |  |          |  |                  |  |          |  |