

Step 5 Execute the Hyper Terminal.



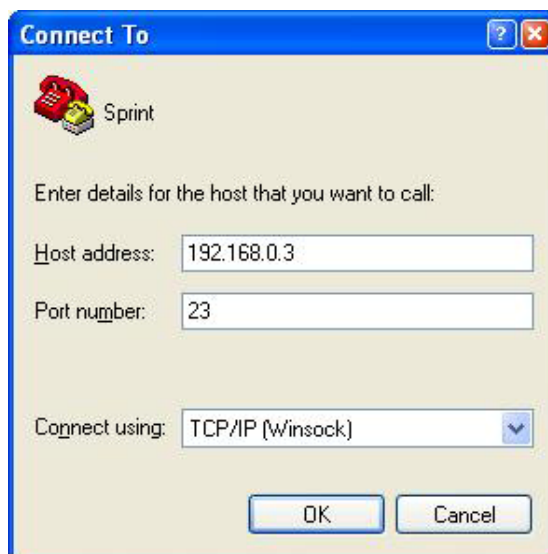
Step 6 Name the session and OK.



Step 7 Select the TCP/IP (Winsock).

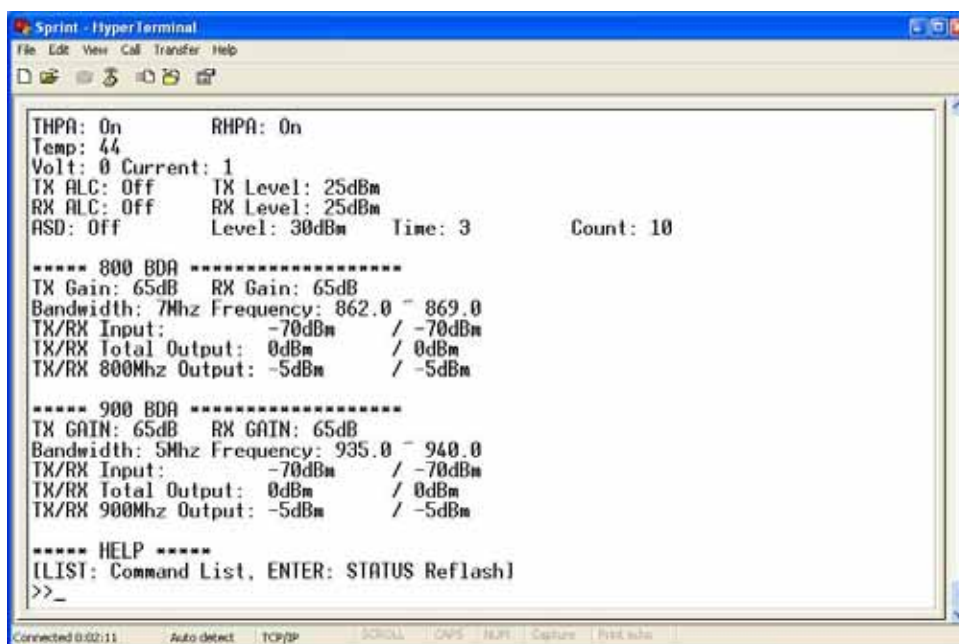


Step 8 Set the values as the following and OK.



4.2 Command and Control through the Hyper Terminal

Note 1. To see the current status, hit "Enter" key only.



Note 2. Type "LIST" and hit "Enter" key to look up the list of commands.

```

Sprint - HyperTerminal
File Edit View Call Transfer Help
==== Common =====
TX HPA On Off - THPA ON/ OFF
RX HPA On Off - RHPA ON/ OFF
TX ALC On Off - TXALC ON/ OFF
TX ALC Level - TXALC_LEVEL Value
RX ALC On Off - RXALC ON/ OFF
RX ALC Level - RXALC_LEVEL Value
ASD On Off - ASD ON/ OFF
ASD Level - ASD_LEVEL Value
ASD Time - ASD_TIME Value
ASD Count - ASD_COUNT Value
==== 800 BDA =====
TX Gain - 8TG Value
RX Gain - 8RG Value
Bandwidth - 8B 0:18Mhz/ 1:7Mhz
Frequency - 8F 0:851.0~869.0/ 1:850.8~868.8/ 2:850.6~868.6
              0:862.0~869.0/ 1:861.8~868.8/ 2:861.6~886.6
==== 900 BDA =====
TX Gain - 9TG Value
RX Gain - 9RG Value
Frequency - 9F 0:935.0~940.0/ 1:934.8~939.8/ 2:934.6~939.6
OK
>>_
Connected 0:03:23 Auto detect TCP/IP SCROLL ONPS NUM Capture Print data

```

Note 3.

To execute a command, "Enter" key must be hit.

If the command is successful, "OK" is displayed but if not, "ERROR" is displayed.

To reset a MCU (Main Control Unit), type "RESET" in.

```
Command: >>RESET_
```

Examples**1 Frequency Setup****1.1 iDEN 800,**

- ✓ Bandwidth: 7MHz
- ✓ Frequency: 861.8MHz ~ 868.8MHz

```
Command: >>8B 1_
>>8F 1_
```

1.2 iDEN 900 (5MHz fixed bandwidth),

- ✓ Frequency: 934.6MHz ~ 939.6MHz (5MHz-bandwidth)

```
Command: >>9F 2_
```

2 Gain Setup**2.1 iDEN 800**

- ✓ TX Gain: 65dB, RX Gain 65dB

```
Command: >>8TG 65_
>>8RG 65_
```

2.2 iDEN 900

- ✓ TX Gain: 65dB, RX Gain 65dB

```
Command: >>9TG 65_
>>9RG 65_
```

3 ALC (Automatic Level Control) Level Setup: 18dBm

```
Command: >>TXALC_LEVEL 18.␣  
>>TXALC ON.␣
```

```
Command: >>RXALC_LEVEL 18.␣  
>>RXALC ON.␣
```

4 ASD* (Automatic Shut Down) Setup:

- ✓ Level: 30dBm, Time: 3sec, Count: 10

* If the output power gets higher than "Level", the repeater will shut down for "Delay" time and then turn on the amp and measure the output power again. If this repeats "Count" times, the repeater will shut down completely.

```
Command: >>ASD_LEVEL 30.␣  
>>ASD_TIME 3.␣  
>>ASD_COUNT 10.␣  
>>ASD ON.␣
```

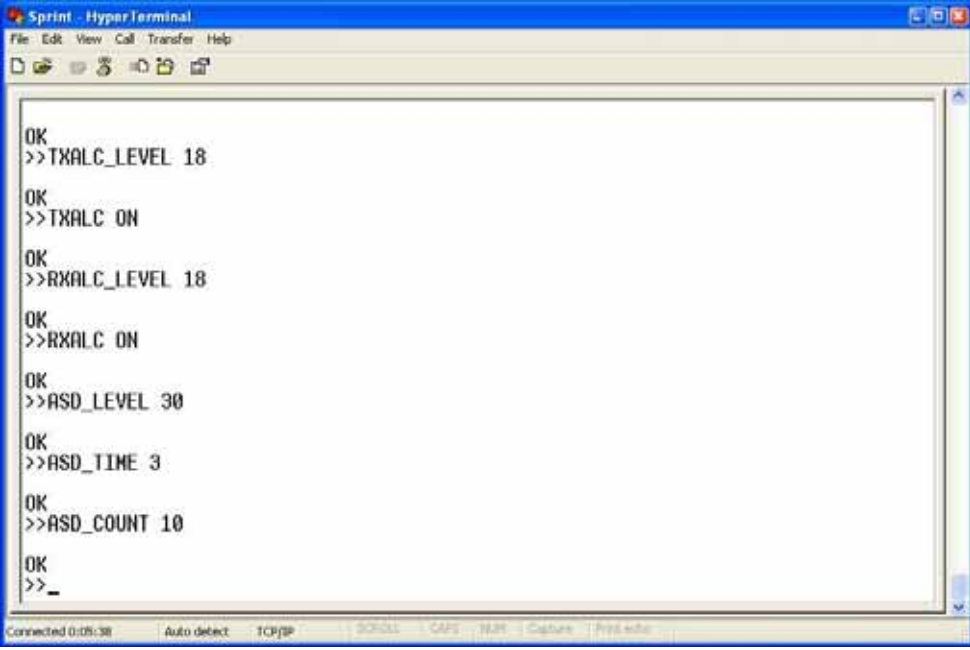
5 Tx HPA On

```
Command: >>THPA ON.␣
```

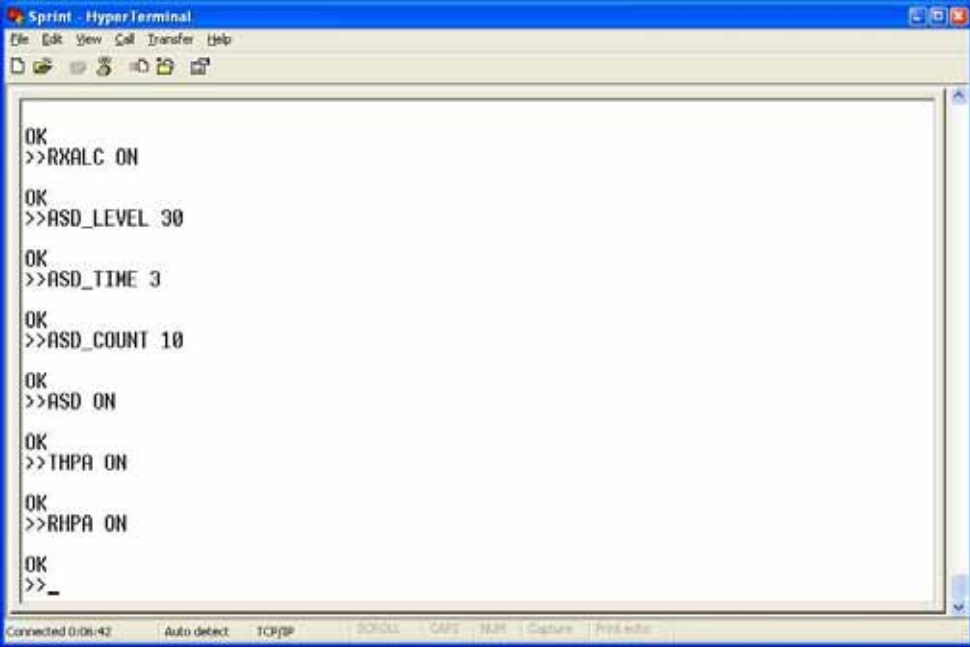
6 Rx HPA On

```
Command: >>RHPA ON.␣
```

```
Sprint - HyperTerminal  
File Edit View Call Transfer Help  
***** HELP *****  
(LIST: Command List, ENTER: STATUS Reflash)  
>>8B 1  
OK  
>>8F 1  
OK  
>>9F 2  
OK  
>>8TG 65  
OK  
>>8RG 65  
OK  
>>9TG 65  
OK  
>>9RG 65  
OK  
>>_  
Connected 0:02:20 Auto detect TCP/IP PORT1 GPRS NUP Capture Printable
```



```
Sprint - HyperTerminal
File Edit View Call Transfer Help
[Icons]
OK
>>TXALC_LEVEL 18
OK
>>TXALC ON
OK
>>RXALC_LEVEL 18
OK
>>RXALC ON
OK
>>ASD_LEVEL 30
OK
>>ASD_TIME 3
OK
>>ASD_COUNT 10
OK
>>_
Connected 0:05:38 Auto detect TCP/IP SCROLL CAPS TRIP Capture Print
```



```
Sprint - HyperTerminal
File Edit View Call Transfer Help
[Icons]
OK
>>RXALC ON
OK
>>ASD_LEVEL 30
OK
>>ASD_TIME 3
OK
>>ASD_COUNT 10
OK
>>ASD ON
OK
>>THPA ON
OK
>>RHPA ON
OK
>>_
Connected 0:06:42 Auto detect TCP/IP SCROLL CAPS TRIP Capture Print
```

The maximum output power for operating is +25 dBm on both Tx and Rx.

*** Reference**
The Operating Bandwidth & Frequencies

	Bandwidth	Operating Frequency	
iDEN 800	18MHz-bandwidth	Downlink	851~869MHz 850.8~868.8MHz 850.6~868.6MHz
		Uplink	806~824MHz 805.8~823.8MHz 805.6~823.6MHz
	7MHz-bandwidth	Downlink	862~869MHz 861.8~868.8MHz 861.6~868.6MHz
		Uplink	817~824MHz 816.8~823.8MHz 816.6~823.6MHz
iDEN 900	5MHz-bandwidth	Downlink	935~940MHz 934.8~939.8MHz 934.6~939.6MHz
		Uplink	896~901MHz 895.8~900.8MHz 895.6~900.6MHz

Operating bandwidth and Frequencies of iDEN

5. Troubleshooting

5.1 RF Connection Check

Problem

Either the downlink output power or the uplink output power (=Input Power to the repeater) is too weak.

Solution

Check if the following RF connections are loose:

1. The cable connection from the donor antenna to the donor antenna port
2. The cable connection from the service antenna port to the service antenna

5.2 Power Connection

Problem

All LEDs at the bottom are turned off.



Figure 17. LEDs Off

Solution

Check if the power cord is connected correctly and the green LED at the bottom is on.



Figure 18. AC power cord Check

5.3 Red Light on the Alarm LED

Problem

Red light LED turns on the Alarm LED after applying AC power.



Figure 19. Red Light on Alarm LED

Solution

Request a technical support.

iDEN MINI

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