

```

Telnet 192.168.1.1
Software Telnet Manager                               Version 3.5
-----
>> users_edit      Edit users profile
   address_pool    Config dynamic assigned address pool
   authenticate     User authentication policy
   assign_address   Peer address assignment policy
   wan_pppoe       WAN port PPPoE function

----- [ Privilege : 000 ] -----
Command : ppp users_edit <more...>_
Message :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (ESC)

```

Hit “Enter” on PPP and you can setup the following:

**Users\_edit** – Edit users profile.

**Address\_pool** – Config dynamic assigned address pool.

**Authenticate** – User authentication policy.

**Assign\_address** – Peer address assignment policy.

**Wan\_pppoe** – WAN port PPPoE function.

## ISP

```

Telnet 192.168.1.1
Software Telnet Manager                               Version 3.5
-----
setup          Quick setup system configuration
upgrade        Upgrade system to new version
enable         Enable configuration mode
monitor        Monitor system running status
passwd         Change user password
system         Generic system parameter configuration
interface      Interface parameter configuration
access-list    Access list rules manager
inspect        Inspection threshold and rules manager
ppp            PPP parameter configuration
>> isp         Dial-out ISP parameter configuration
   ip_share    NNI parameter configuration

----- [ Privilege : 000 ] -----
Command : isp <1~4> <more...>
Message : Please input the following information.

Input ISP profile number <1~4> :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (^Q-HELP)

```

Hit “Enter” on ISP and you will prompt to input the ISP profile number.

## IP\_share

```

Telnet 192.168.1.1
Software Telnet Manager                               Version 3.5
-----
>> nat          Config port address translation
   nat          Config network address translation

----- [ Privilege : 000 ] -----
Command : ip_share nat <more...>_
Message :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (ESC)

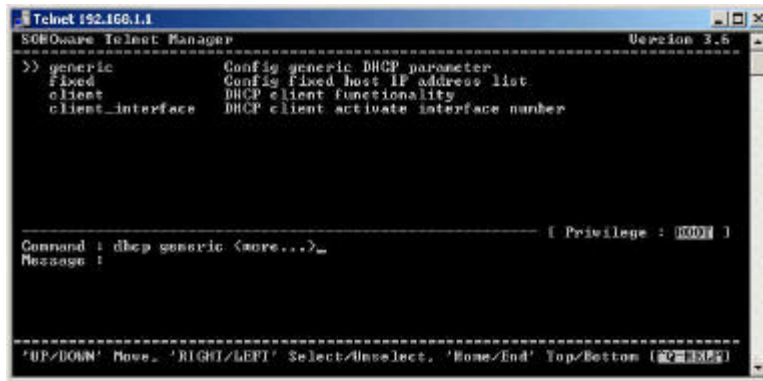
```

Hit “**Enter**” on Ip\_share and you can setup the following:

**Pat** – Config port address translation.

**Nat** – Config network address translation.

## DHCP



```
Telnet 192.168.1.1
Software Telnet Manager Version 3.5
>> generic          Config generic DHCP parameter
   Fixed            Config fixed host IP address list
   client           DHCP client functionality
   client_interface DHCP client activate interface number

Command : dhcp generic <more...>_
Message :
```

Hit “**Enter**” on DHCP and you can setup the following:

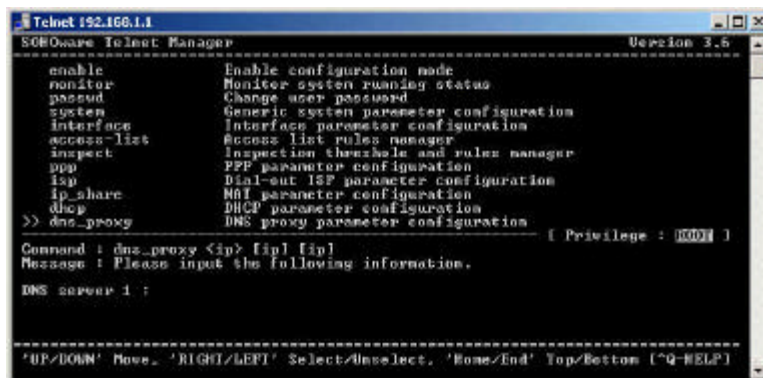
**Generic** – Configure generic DHCP parameter.

**Fixed** – Configure Fixed host IP address list.

**Client** – DHCP client functionality.

**Client\_interface** – DHCP client activate interface number.

## DNS Proxy



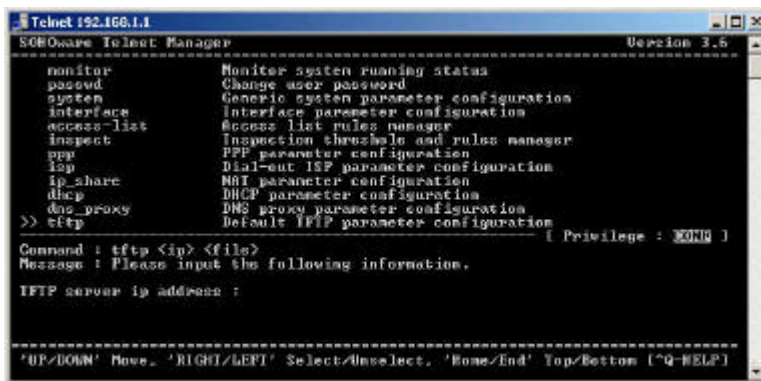
```
Telnet 192.168.1.1
Software Telnet Manager Version 3.5
enable          Enable configuration mode
monitor         Monitor system running status
passwd         Change user password
system         Generic system parameter configuration
interface       Interface parameter configuration
access-list     Access list rules manager
inspect         Inspection threshold and rule manager
ppp            PPP parameter configuration
isp            Dial-out ISP parameter configuration
ip_share       NAT parameter configuration
dhcp           DHCP parameter configuration
>> dns_proxy   DNS proxy parameter configuration

Command : dns_proxy <ip> [ip] [ip]
Message : Please input the following information.

DNS server 1 :
```

Hit “**Enter**” on DNS Proxy and you can setup DNS\_proxy server name and its IP address.

## Tftp

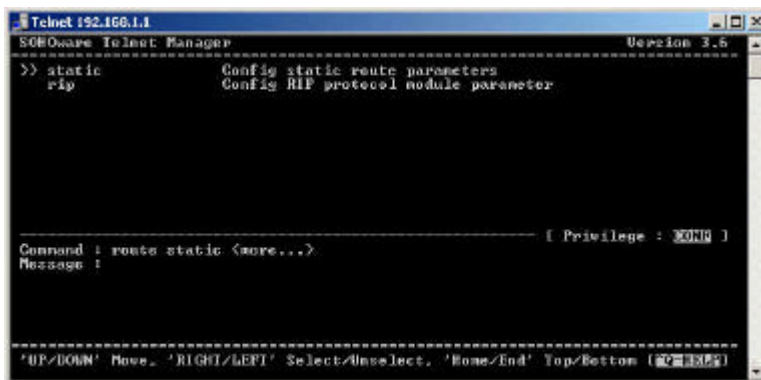


```
Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.6
-----
monitor          Monitor system running status
passwd           Change user password
system           Generic system parameter configuration
interface         Interface parameter configuration
access_list      Access list rules manager
inspect          Inspection shresholds and rules manager
ppp              PPP parameter configuration
isp              Dial-out ISP parameter configuration
ip_share         NAT parameter configuration
dhcp             DHCP parameter configuration
dns_proxy        DNS proxy parameter configuration
>> tftp          Default TFTP parameter configuration
-----
[ Privilege : ADMIN ]
Command : tftp <ip> <file>
Message : Please input the following information.
TFTP server ip address :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (^Q=HELP)
```

Hit “**Enter**” on Tftp and you can setup the IP address for Tftp server.

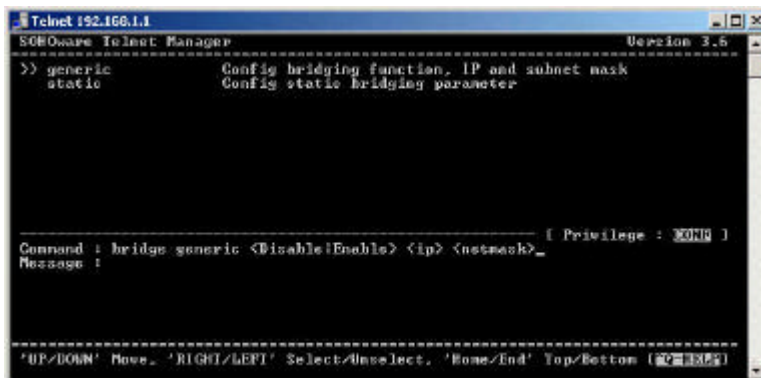
## Route



```
Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.6
-----
>> static         Config static route parameters
rip              Config RIP protocol module parameter
-----
[ Privilege : ADMIN ]
Command : route static <more...>
Message :
```

Hit “**Enter**” on Route and you can setup  
**Static** – To configure the static route parameters.  
**Rip**– To configure RIP protocol module parameter.

## Bridge



```
Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.6
-----
>> generic         Config bridging function, IP and subnet mask
static           Config static bridging parameter
-----
[ Privilege : ADMIN ]
Command : bridge generic <Disable/Enable> <ip> <netmask>_
Message :
```

Hit “**Enter**” on Bridge you can setup

**Generic** – To configure bridging function, IP and subnet mask.

**Static** – To configure static bridging parameter.

## WLAN



```
Telnet 192.168.1.1
SOHOware Telnet Manager Version 3.5
>> SSID
channel      Current operating frequency channel
tx_rate      Transmission Rate
basic_rate   Basic Rate
stationName  stationName
rtsThreshold RTS threshold
fragThreshold Fragmentation threshold (even numbers only)
weprequired  Enable/Disable WEP function
defaultKeyId WEP default key ID
defaultKeys  WEP key table

Command : WLAN SSID <string>
Message :

[ Privilege : MONR ]

'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [?Q-HELP]
```

Hit “**Enter**” you are able to configure,

### SSID

**Channel** – Current operating frequency channel.

**Tx\_rate** – Transmission Rate

**Basic\_rate** – Basic rate.

**Station name** – station name

**Rts Threshold** – Rtx threshold.

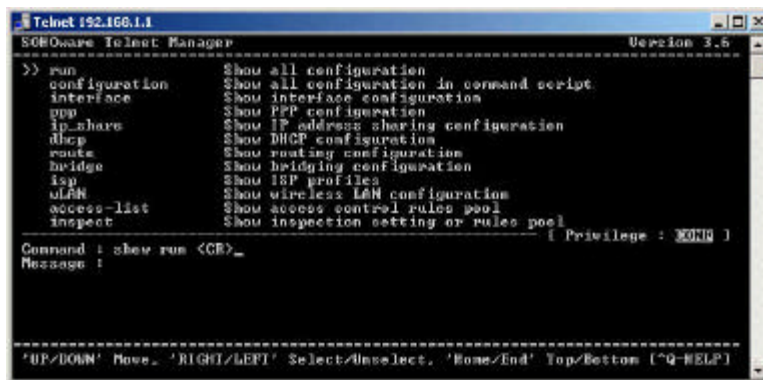
**FragThreshold** – Fragmentation threshold (even numbers only)

**Weprequired** – Enable/Disable WEP function.

**DefaultKeyID** – WEP default key ID.

**DefaultKeys** – WEP key table.

## Show



```
Telnet 192.168.1.1
SOHOware Telnet Manager Version 3.5
>> run
configuration Show all configuration
interface      Show all configuration in command script
interface      Show interface configuration
ppp            Show PPP configuration
ip_share       Show IP address sharing configuration
dhcp           Show DHCP configuration
route          Show routing configuration
bridge         Show bridging configuration
isp            Show ISP profiles
wlan           Show wireless LAN configuration
access-list    Show access control rules pool
inspect        Show inspection setting or rules pool

Command : show run <CR>_
Message :

[ Privilege : MONR ]

'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [?Q-HELP]
```

Hit “**Enter**” on Show you may be able to view

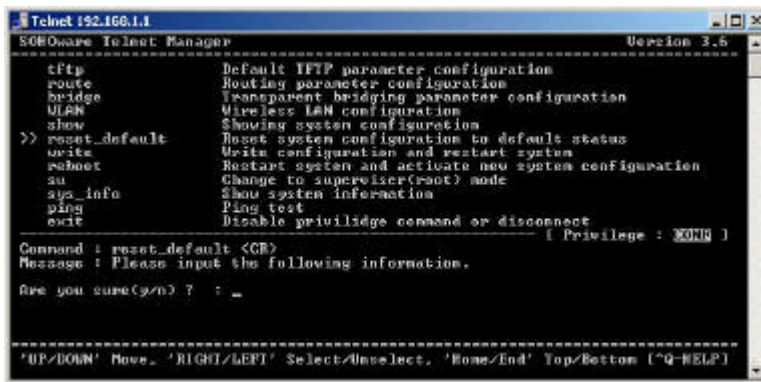
**Run** – Show all configuration.

**Configuration** – Show all configuration in command script

**Interface** – Show interface configuration.

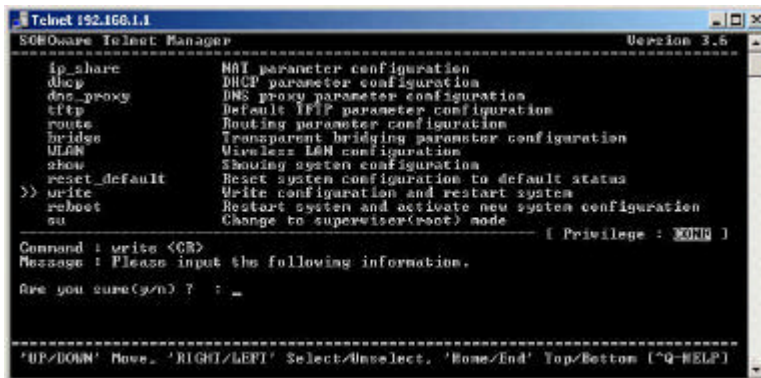
- PPP** – Show PPP configuration.
- IP\_share** – Show IP address sharing configuration.
- DHCP** – Show DHCP configuration.
- Route** – Show routing configuration
- Bridge** – Show bridging configuration.
- ISP** – Show ISP profiles.
- WLAN** – Show wireless LAN configuration.
- Access-List** – Show access control rules pool.
- Inspect** – Show inspection setting or rules pool.

### Reset\_Default



Hit “**Enter**” on reset\_default and type “**y**” for yes and “**n**” for no to reset to default setting.

### Write



Hit “**Enter**” on Write and type “**y**” for yes and “**n**” for no to reset the system configuration to default status.

### Reboot

```

Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.5
-----
ip_share      NAT parameter configuration
dhcp         DHCP parameter configuration
dns_proxy    DNS proxy parameter configuration
tftp        Default TFTP parameter configuration
route       Routing parameter configuration
bridge     Transparent bridging parameter configuration
MLAN       Wireless LAN configuration
show       Showing system configuration
reset_default Reset system configuration to default status
write      Write configuration and restart system
>> reboot   Restart system and activate new system configuration
su         Change to supervisor(root) mode
-----
[ Privilege : ROMO ]

Command : reboot <CR>
Message : Please input the following information.
Do you want to reboot system to activate new configuration(y/n) ? :

'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (^Q-HELP)

```

Hit “**Enter**” on reboot and type “**y**” for yes and “**n**” for no to restart system and activate new system configuration.

### Su

```

Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.5
-----
dhcp         DHCP parameter configuration
dns_proxy    DNS proxy parameter configuration
tftp        Default TFTP parameter configuration
route       Routing parameter configuration
bridge     Transparent bridging parameter configuration
MLAN       Wireless LAN configuration
show       Showing system configuration
reset_default Reset system configuration to default status
write      Write configuration and restart system
>> reboot   Restart system and activate new system configuration
su         Change to supervisor(root) mode
sys_info   Show system information
-----
[ Privilege : ROMO ]

Command : su <password>
Message : Please input the following information.
Supervisor password :

'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (^Q-HELP)

```

Hit “**Enter**” on su to switch to supervisor mode, it will prompt you for supervisor password.

### Sys\_info

```

Telnet 192.168.1.1
SOHOware Telnet Manager                               Version 3.5
-----
<1> General system information
Model       : GL2411BT-001
Software Version : B.25b
Build      :
CPU       : ARM 33C4510B
RAM      : 512B
Flash   : 1MB
Chipset  :
Firmware Version :
Server IP Address : 192.168.1.1
Hostname   : PR-SERVER

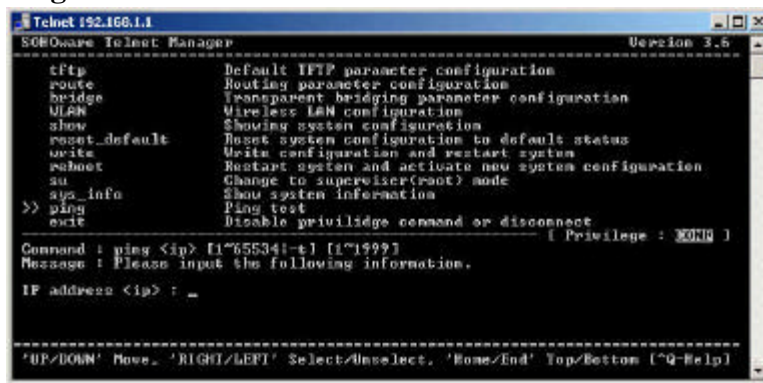
Press Any Key to Return Menu Window...
-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom (^Q-HELP)

```

Hit “**Enter**” on sys\_info and it will take you to a status screen.



## Ping



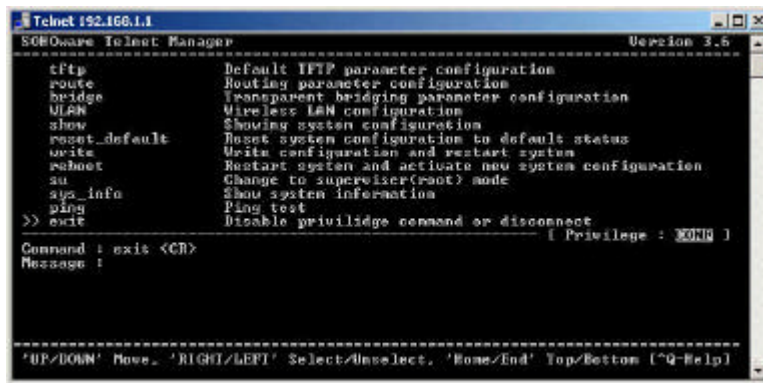
```
Telnet 192.168.1.1
SOFOware Telnet Manager                               Version 3.6
-----
tftp      Default TFTP parameter configuration
route     Routing parameter configuration
bridge    Transparent bridging parameter configuration
vlan      Wireless LAN configuration
show      Showing system configuration
reset_default  Reset system configuration to default status
write     Write configuration and restart system
reboot    Restart system and activate new system configuration
su        Change to supervisor(root) mode
sys_info  Show system information
>> ping   Ping test
exit      Disable privilege command or disconnect
[ Privilege : ROM ]

Command : ping <ip> [1~65534]-t [1~1999]
Message : Please input the following information.
IP address <ip> : _

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [^Q=Help]
```

Hit “**Enter**” on ping and it will prompt you for a IP address to ping to.

## Exit



```
Telnet 192.168.1.1
SOFOware Telnet Manager                               Version 3.6
-----
tftp      Default TFTP parameter configuration
route     Routing parameter configuration
bridge    Transparent bridging parameter configuration
vlan      Wireless LAN configuration
show      Showing system configuration
reset_default  Reset system configuration to default status
write     Write configuration and restart system
reboot    Restart system and activate new system configuration
su        Change to supervisor(root) mode
sys_info  Show system information
>> ping   Ping test
exit      Disable privilege command or disconnect
[ Privilege : ROM ]

Command : exit <CR>
Message :

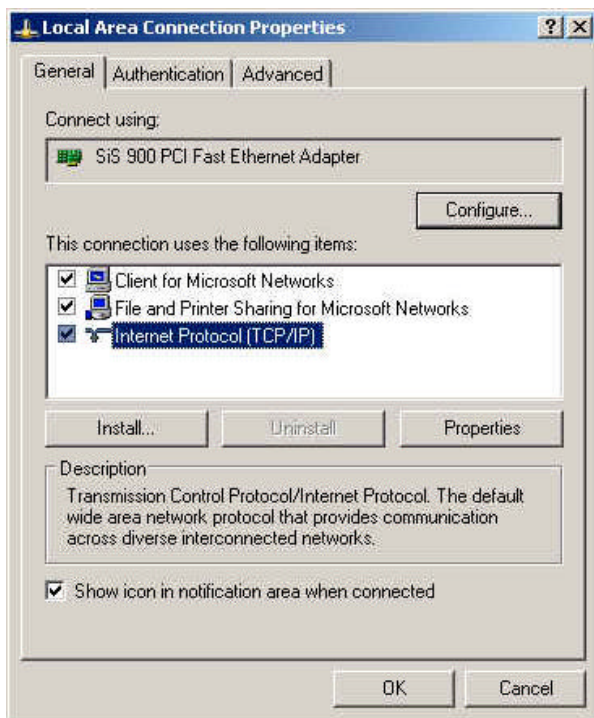
-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [^Q=Help]
```

Hit “**Enter**” on exit to disable privileged command or disconnect.

## Section 6 How to Configure Your PC to Connect the Gateway Router

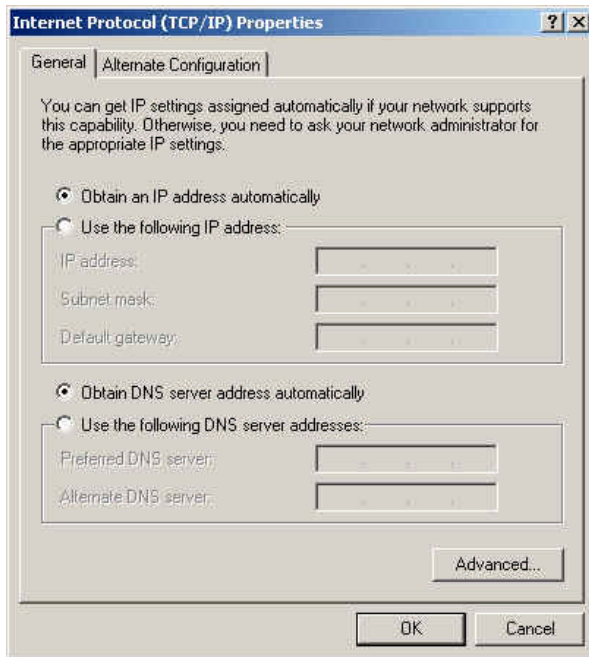
If you **do not** wish to set a static IP address on your PC, you will need to configure your PC to accept the IP address that your gateway will provide.

1. Click **Start** button, select **Settings**, then **Control Panel**
2. Double-click the **Network** Icon
3. In the **configuration** windows, select the **Internet Protocol** that has been associated with your network card/adaptor. If there is no TCP/IP line listed, you will need to install the TCP/IP now.





4. Click the **Properties** button, then choose the **IP ADDRESS** tab. Select **Obtain an IP address automatically**.



5. Then select **DNS configuration** tab to add **DNS IP address**. If you do not wish to add DNS you can **disable DNS function**. Press **OK**. You have completed the client settings.
6. After clicking **OK**, windows will ask you to restart the PC. Click **Yes**.

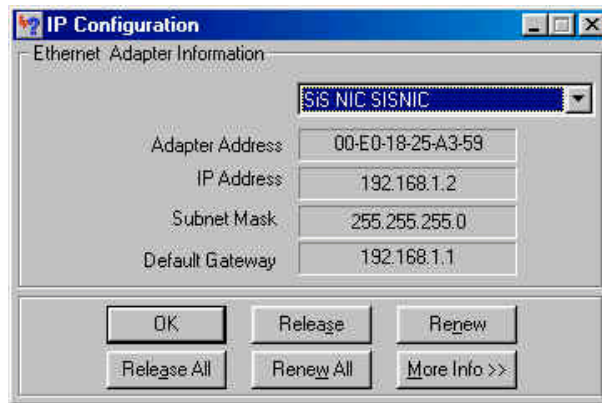
## Confirm Your PC's IP Configuration

There are two tools which are great for finding out a computer's IP configuration: MAC address and default gateway.

- **WINIPCFG (for windows 95/98/ME)**

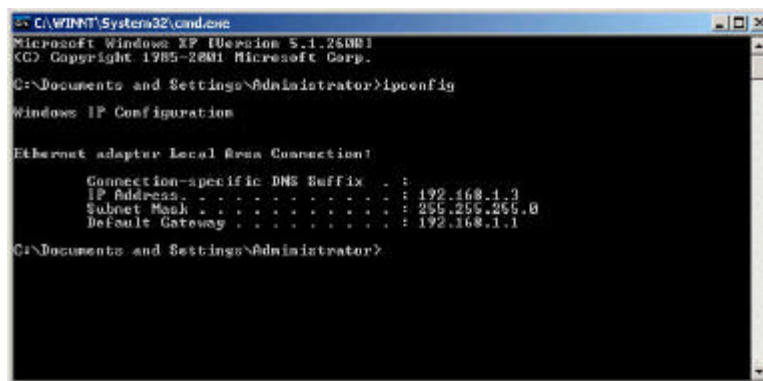
Inside the windows 95/98/ME **Start** button, select Run and type **winipcfg**. In the example below this computer has a IP address of 192.168.1.2 and the default

gateway is 192.168.1.1. The default gateway should be the network device IP address. The MAC address in windows 95/98 is called the Adapter Address.



- **IPCONFIG (for windows 2000/NT/XP)**

In the DOS command type **IPCONFIG** and press **Enter**. Your PC IP information will be displayed as shown below.



**This concludes the user manual.**

Should you require further assistance or have other inquires please contact your distributor.

## Appendix A Specifications

| Hardware                             | Specification   |
|--------------------------------------|---|
| <b>Architecture</b>                  | <ul style="list-style-type: none"> <li>▪ SAMSUNG ARM7 embedded</li> </ul>   |
| Operating System supports            | <ul style="list-style-type: none"> <li>▪ Supertask</li> </ul>   |
| M/B Form Factor                      | <ul style="list-style-type: none"> <li>▪ 7.5"x5.5"</li> </ul>   |
| <b>CPU Support</b>                   | <ul style="list-style-type: none"> <li>▪ <i>SAMSUNG ARM7</i></li> </ul>   |
| <b>Memory</b>                        | <ul style="list-style-type: none"> <li>▪ Flash: 1Mbyte</li> <li>▪ SDRAM: 8Mbyte</li> </ul>  |
| <b>Wireless network architecture</b> | <ul style="list-style-type: none"> <li>▪ Compatibility: Devices supporting IEEE802.11b wireless standards</li> <li>▪ Frequency Band: 2400-2483.4 MHz</li> <li>▪ Wireless Medium: Direct Sequence Spread Spectrum</li> <li>▪ Radio data rate: 1, 2, 5.5 and 11Mbps</li> <li>▪ Modulation: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5 and 11Mbps</li> <li>▪ Chipset: Intersil PRISM II.5</li> <li>▪ Operation Channel :<br/> 11Channel (America, Canada)<br/> 13Channel (Europe)<br/> 14 Channel (Japan)</li> <li>▪ Non-Overlapping channels: 3</li> <li>▪ Receive Sensitivity:<br/> -88dBm@1Mbps, -86dBm@2Mbps, -84dBm@5.5Mbps, -80dBm@11Mbps</li> <li>▪ Output Power: 18-20 dBm max.</li> <li>▪ Range: 300 feet</li> </ul> |
| <b>Wired Network architecture</b>    | <ul style="list-style-type: none"> <li>▪ 10/100 Base-T LAN support</li> </ul>   |
| <b>Back I/O</b>                      | <ul style="list-style-type: none"> <li>▪ 4 x 10/100 Base-T LAN Port</li> <li>▪ 2 x Antenna</li> <li>▪ 1 x AC Power Port</li> </ul>  |

## Appendix B Glossary

**Access Point** An internetworking device that seamlessly connects wired and wireless networks.

**Ad-Hoc** An Ad-Hoc wireless LAN is a group of computers each with LAN adapters, connected as an independent wireless LAN.

**Authentication Type** Indication of an authentication algorithm which can be supported by this node:  
Open System : Open System authentication is the simplest of the available authentication algorithms. Essentially it is a null authentication algorithm. Any station that requests authentication with this algorithm may become authenticated if dot11AuthenticationType at the recipient station is set to Open System authentication.  
Shared Key : Shared Key authentication supports authentication of STAs as either a member of those who know a shared secret key or a member of those who do not.  
Open System authentication is the default authentication algorithm.

**Backbone** The core infrastructure of a network. The portion of the network transports information from one central location to another central location where it is unloaded onto a local system.

**Basic Rate** the data rate of the AP with the value 1,2,5.5 or 11 Mbps for your selection.

**Bridge** An internetworking function that incorporates the lowest 2 layers of the OSI network protocol model.

**BSS** BSS stands for “Basic Service Set”. It is an Access Point and all the LAN PCs that associated with it.

**Channel** The AP and the with it associated stations will work in this channel. You must set the channel by consulting Appendix B from violating the Specifications.

**DSSS** direct sequence spread spectrum

**ESS** ESS stands for “Extended Service Set”. More than one BSS is configured to become Extended Service Set. LAN mobile users can roam between different BSSs in an ESS.

**ESSID** In infrastructure association , the stations will link to the AP with the same ESSID as they have.

**Ethernet** A popular local area data communications network, originally developed by Xerox Corp., that accepts transmission from computers and terminals. Ethernet operates on a 10 Mbps base band transmission rate, using a shielded coaxial cable or over shielded twisted pair telephone wire.

**Ethernet IP Address and Subnet Mask** Please setup them to match your network environment.

For example: If your IP address is 192.168.99.127 and your Subnet Mask is 255.255.255.0.  
Please set the IP address of the AP to 192.168.99.xx which will not have conflict with other IP address and set the Subnet Mask of the AP to 255.255.255.0.

**Ethernet MAC Address** Don’ t change it, as this will disable the AP.

**Infrastructure** An integrated wireless and wired LAN is called an Infrastructure configuration.

**PLCP** physical layer convergence protocol

**PPDU** PLCP protocol data unit

**Preamble Type** During transmission, the PSDU shall be appended to a PLCP preamble and header to create the PPDU. Two different preambles and headers are defined : the mandatory supported long preamble and header which interoperates with the current 1 and 2 Mbps DSSS specification as described in IEEE Std 802.11-1999, and an optional short preamble and header. At the receiver, the PLCP preamble and header are processed to aid in demodulation and delivery of the PSDU. The optional short preamble and header is intended for application where maximum throughput is desired and interoperability with legacy and non short preamble capable equipment is not consideration. That is, it is expected to be used only in networks of like equipment that can all handle the optional mode. (IEEE 802.11b standard)

**PSDU** PLCP service data unit

**Roaming** A LAN mobile user moves around an ESS and enjoys a continuous connection to the Infrastructure network.

**RTS Threshold** Transmitters contending for the medium may not be aware of each other. RTS/CTS mechanism can solve this “ Hidden Node Problem”. If the packet size is smaller than the preset RTS Threshold size, the RTS/CTS mechanism will NOT be enabled.

**WEP** Wired Equivalent Privacy (WEP) is an encryption scheme used to protect wireless data communication. To enable the icon will prevent other stations without the same WEP key from linking with the AP.