

```

Telnet 192.168.1.1
SGOSware 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 : 0001 ] -----
Command : ppp users_edit <more...>_
Message :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [SGOS]

```

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
SGOSware 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 WAN parameter configuration

----- [ Privilege : 0001 ] -----
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
SGOSware Telnet Manager                                     Version 3.5
-----
>> nat      Config port address translation
   nat      Config network address translation

----- [ Privilege : 0001 ] -----
Command : ip_share nat <more...>_
Message :

-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom [SGOS]

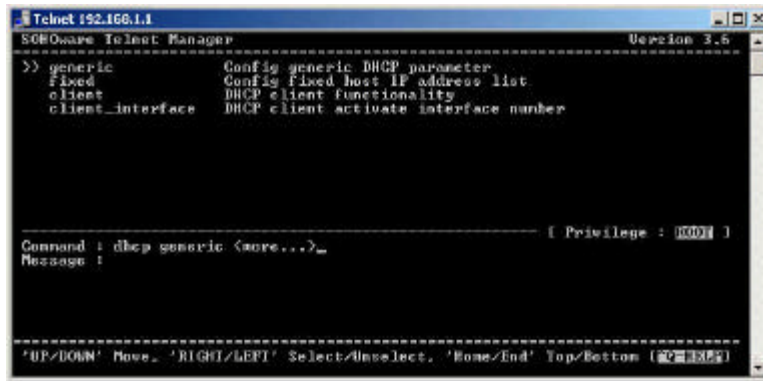
```

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

Pat – Config port address translation.

Nat – Config network address translation.

DHCP



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

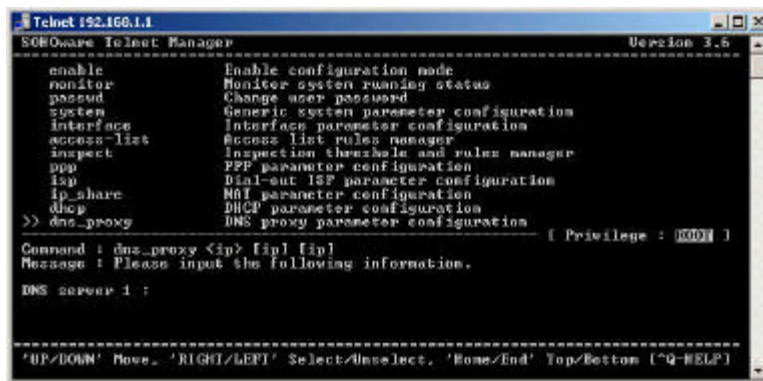
Generic – Configure generic DHCP parameter.

Fixed – Configure Fixed host IP address list.

Client – DHCP client functionality.

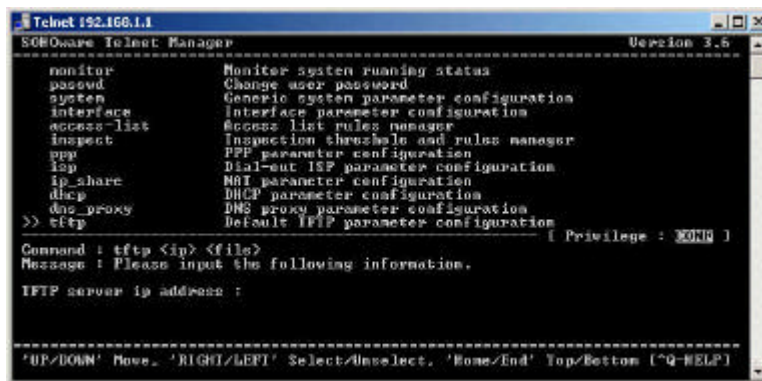
Client_interface – DHCP client activate interface number.

DNS Proxy



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 thresholds 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 : XONX ]

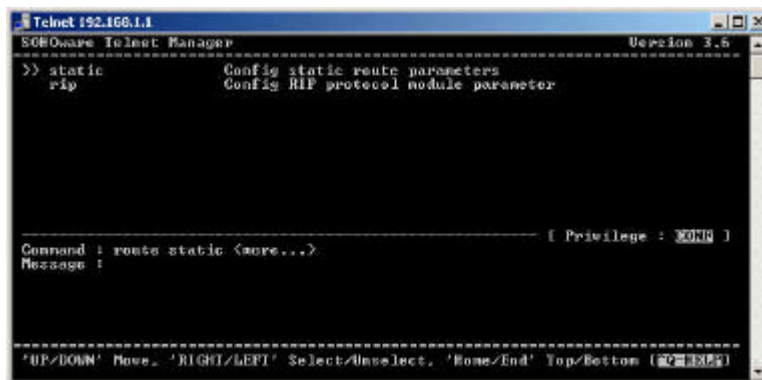
Command : tftp <ip> <file>
Message : Please input the following information.

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



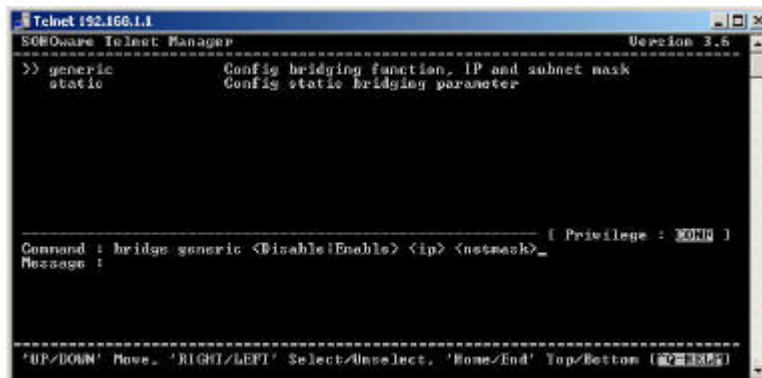
```
Telnet 192.168.1.1
SOHOware Telnet Manager Version 3.6
>> static    Config static route parameters
    rip       Config RIP protocol module parameter

-----
Command : route static <more...> [ Privilege : XONX ]
Message :

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

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

-----
Command : bridge generic <Disable!Enable> <ip> <netmask>_
Message :

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

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

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

Static – To configure static bridging parameter.

WLAN



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.

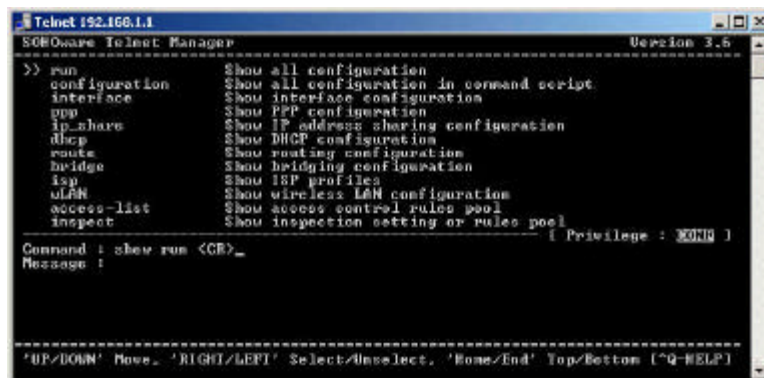
FragThreshold– Fragmentation threshold (even numbers only)

Weprequired– Enable/Disable WEP function.

DefaultKeyID – WEP default key ID.

DefaultKeys – WEP key table.

Show



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

```

Telnet 192.168.1.1
Sophos Telnet Manager Version 3.6

tftp      Default TFTP parameter configuration
route     Routing parameter configuration
bridge    Transparent bridging parameter configuration
wlan      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

Command : reset_default <CR>
Message : Please input the following information.
Are you sure(y/n)? : y

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

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

Write

```

Telnet 192.168.1.1
Sophos Telnet Manager Version 3.6

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
wlan      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

Command : write <CR>
Message : Please input the following information.
Are you sure(y/n)? : y

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

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 3.6
-----
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
ULAN              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 : KONIG ]

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 3.6
-----
dhcp              DHCP parameter configuration
dns_proxy         DNS proxy parameter configuration
tftp              Default TFTP parameter configuration
route             Routing parameter configuration
bridge            Transparent bridging parameter configuration
ULAN              Wireless LAN configuration
show              Showing system configuration
reset_default     Reset system configuration to default status
write             Write configuration and restart system
>> su             Change to supervisor(root) mode
sys_info          Show system information
----- [ Privilege : KONIG ]

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 3.6
-----
Status Window...
<I> General system information
Model       : GL2411RT-001
Software Version : B.25b
Build      :
CPU        : ARM 33C4510B
RAM        : 8MB
Flash      : 1MB
Chipset    :
Firmware Version :
Server IP Address : 192.168.1.1
Hostname    : PR-SERVER

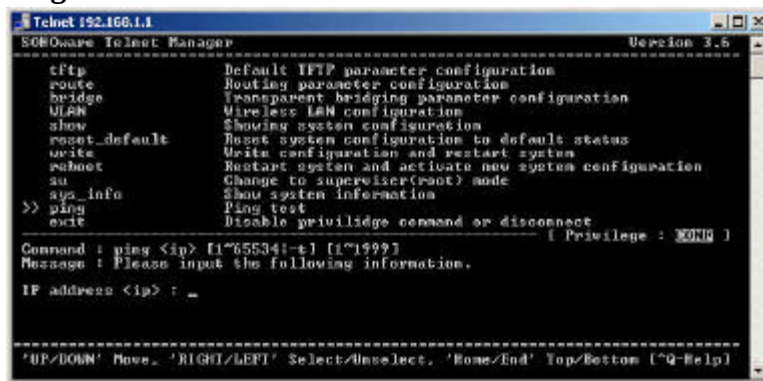
Press Any Key to Return Menu Window...

'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
SOHOware Telnet Manager Version 3.6

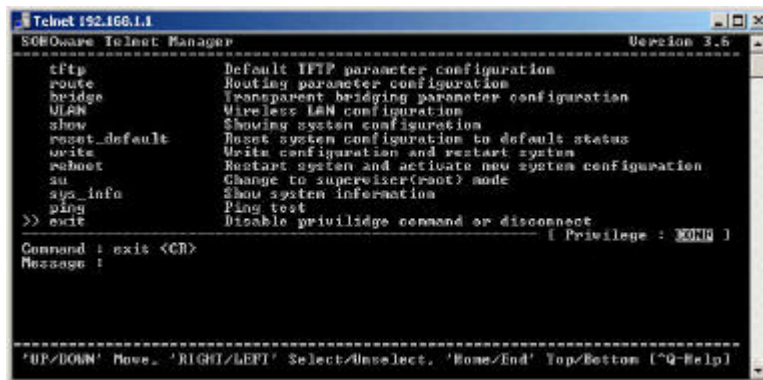
tftp      Default TFTP parameter configuration
route     Routing parameter configuration
bridge    Transparent bridging parameter configuration
vlan      Wireless LAN configuration
show      Showing system configuration
reset_default  Reset system configuration to default status
write     Write configuration 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 : XONX ]

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
SOHOware 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 : XONX ]

Command : exit <CR>
Message :

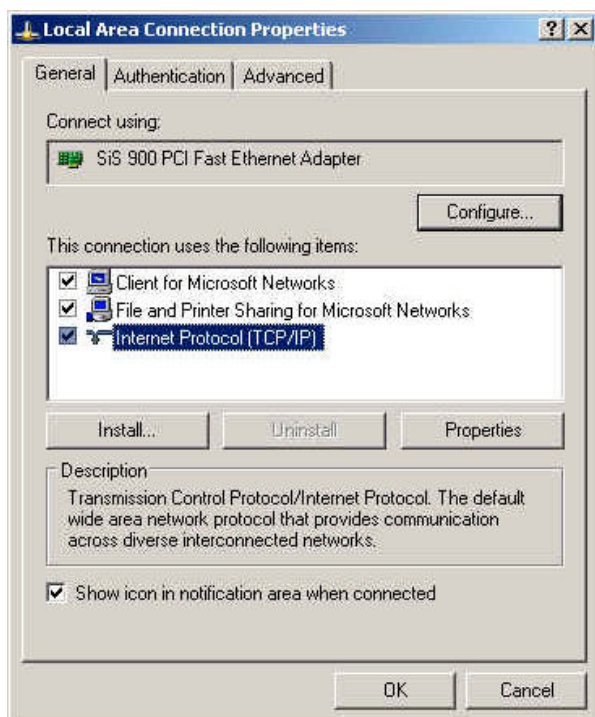
-----
'UP/DOWN' Move, 'RIGHT/LEFT' Select/Unselect, 'Home/End' Top/Bottom ['Q-Help]
```

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

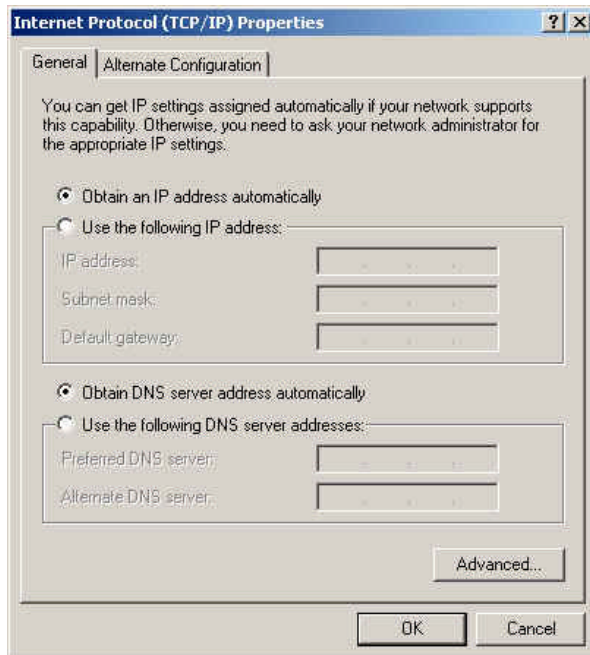
Section 6 How to Configure Your PC to Connect the Gateway Router

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/adapter. 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**.

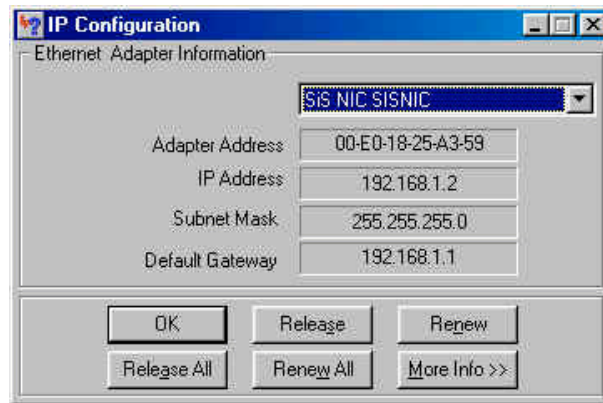
Confirm Your PC's IP Configuration

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)**

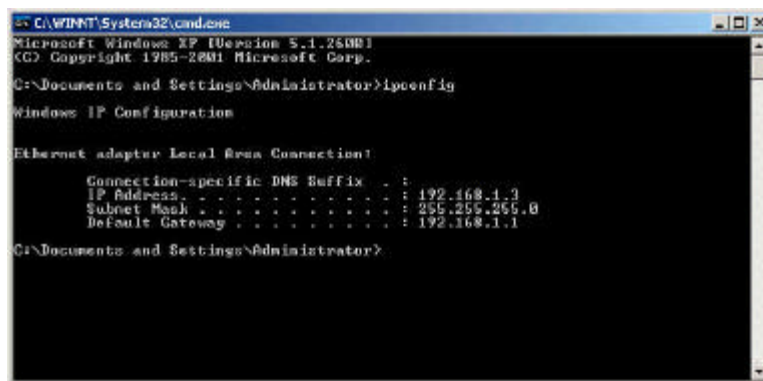
Inside the windows 95/98/ME **Start** button, select Run and type **winipcfg**. In the example below this computer has a IP address of 192.168.1.2 and the default

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 inquiries please contact your distributor.

Appendix A Specifications

Hardware	Specification
Architecture	SAMSUNG ARM7 embedded
Operating System supports	Supertask
M/B Form Factor	7.5"x5.5"
CPU Support	SAMSUNG ARM7
Memory	- Flash: 1Mbyte - SDRAM: 8Mbyte
Wireless network architecture	- Compatibility: Devices supporting IEEE802.11b wireless standards - Frequency Band: 2400-2483.4 MHz - Wireless Medium: Direct Sequence Spread Spectrum - Radio data rate: 1, 2, 5.5 and 11Mbps - Modulation: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5 and 11Mbps - Chipset: Intersil PRISM II.5 - Operation Channel : 11Channel (America, Canada) 13Channel (Europe) 14 Channel (Japan) - Non-Overlapping channels: 3 - Receive Sensitivity: -88dBm@1Mbps, -86dBm@2Mbps, -84dBm@5.5Mbps, -80dBm@11Mbps - Output Power: 18-20 dBm max. - Range: 300 feet
Wired Network architecture	10/100 Base-T LAN support
Back I/O	4 x 10/100 Base-T LAN Port 2 x Antenna 1 x AC Power Port

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.