| Telnet 192.168.1.1 | | |
|--|--|-------------------------|
| SOHOware Telest Man | ager | Version 3.5 |
| >) users_edit address_peol authenticate assign_address wan_pppon | Edit esers profile Config dynamic assigned address (Seer authentication policy Peer address assignment policy VAN port PPPaE function | poo 1 |
| Command ↓ ppp users. Nessage I | edit (more)_ | [Privilege : 15001] |
| 'UP/DOWN' Move, 'RI | GHI/LEFT' Select/Unselect, 'Mome/En | d' lop/Bettom (#223382) |

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



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

IP_share



Hit "Enter" on Ip_share and you can setup the following:

- Pat Config port address translation.
- Nat Config network address translation.

DHCP

| Teinet 192.168.1.1 | A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER | _ 0 | X |
|---|--|-----------------------|---|
| SOHOware Telest Manag | ja P | Version 3.6 | - |
| <pre>>> generic fixed oliont client_interface</pre> | Config generic DHCP parameter Config fixed host IP address list DHCP client functionality DHCP client activate interface nur | ıber | |
| Connand i dhop gener: Nesaage i | ic (more)_ | (Privilege : 2001)] | |
| 'UP/DOWN' Mowe_ 'RIG | ∏/LEFT' Select∕Unselect, 'Home∕End' | Top/Bettom (PERE) | - |

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

| COLOR DE LA LOCAL | | |
|---|---|---------------------|
| SUBOWAPE ISINGL PA | in age p | Version 3.5 |
| enable passud system interface access-list inspect pop isp isp share dhop >> dns_proxy | Enable configuration mode Monicor system running status Change user password Interface parameter configuration Access list rules nonager Inspection threshold and rules manage PPP parameter configuration Disi-out ISP parameter configuration MRT parameter configuration DRCP parameter configuration DRCP parameter configuration DRCP parameter configuration | 0 M |
| Connand : dns_pro; Message : Please DNS server 1 ; | (y <ip} fip]="" fip]<br="">Input the fullowing information.</ip}> | lbierede : 7779 1 |
| UP/DOWN' Move ') | IGHT/LEFT' Select/Minselect, 'Home/End' T | op/Bettom (^Q-HELP) |

Hit "Enter" on DNS Proxy and you can setup DNS_proxy server name and its IP address.

Tftp

| Teinet 192.168.1.1 | and the second se | _ [I] × |
|--|---|------------|
| SOHOware Telest M. | anager Ve | 1421on 3.6 |
| nonitor passvd system interface access-list inspect ppp ip_share dhcp b_share dhcp by thy b_share | Monitor system running status Change user password Generic system parameter configuration Interface parameter configuration Access list rules manager Taspection threaded and rules manager PPP parameter configuration Disl-sut ISP parameter configuration MAT parameter configuration DHCP parameter configuration DHCP parameter configuration DHCP parameter configuration DHCP parameter configuration DHCP parameter configuration DHCP parameter configuration | |
| Command : tftp <i: Message : Please</i: | a) <fils> input the following information.</fils> | · · · · · |
| TFTP server ip ad | (Mess 7 | |
| 'UP/DOWN' Nove. ') | RIGHT/LEPT' Select/Unselect, 'Kome/End' Top/Bettom | (^q-HELP) |

Hit "Enter" on Tftp and you can setup the IP address for Tftp server.

Route

| Telnet 192.168.1.1 | and the second | |
|--|--|--------------------------------|
| SOHOware Telest M | anager | Version 3.5 |
| >> static Config static reute parameters rip Config RIP protocol module parameter | | eters e parameter |
| Gonnand ↓ roste s Message I | tatic (merc) | [Privilege : <u>2019</u>] |
| 'UP/DOWN' Move. ' | RIGHI/LEFI' Select/Unselect, ' | Rome/End' Top/Rottom (#223352) |

Hit "Enter" on Route and you can setup

Static – To configure the static route parameters. **Rip** – To configure RIP protocol module parameter.

Bridge



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 | and the second | |
|--|---|---|
| SOHOware Telest Man | ager | Version 3.6 |
| >> SSID chanel tw.wite hasic_rate stationName rtsThresheld fragThresheld upprequired defamltKeys | SSID Current operating freque Transmission Nate Basic Rate stationMane MTS thresheld Fragmentation thresheld Enable/Disable VEP funct VEP default key ID VEP hey table | ncy shannel Keven numbers only) ion |
| Gennand i VLAN SSID Message i | <string)< td=""><td> [Privilege : <u>2010</u>]</td></string)<> | [Privilege : <u>2010</u>] |
| 'UP/DOWN' Move, 'RI | GHI/LEFI' Select/Unselect. | 'Home/End' Top/Bottom (2011205) |

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 192.166.1.1 | and the second se | |
|---|---|---|
| SOHOware Telest Man | ager | Version 3.5 |
| <pre>>> run configuration interface ppp ip.zhars dbsp routs buidge isp uLAM adcess-list inspect</pre> | Show all cenfiguration Show all cenfiguration in connex Show interface configuration Show PFP cenfiguration Show DFP configuration Show DHCP configuration Show boating cenfiguration Show bridging cenfiguration Show wireless LAN configuration Show wireless LAN configuration Show wireless control rules pool Show inspection cetting or rules | nd script ration 5 poel |
| Command : shew run Message : 'UP/DOWN' Nove, 'Ri | <cb> GHT/LEFT' Select/Unselect, 'Home/Er</cb> | (Privilege : 35019) id' 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

| Teinet 192.168.1.1 | | |
|--|---|---------------------|
| SOHOware Telest Man | age P | Version 3.6 |
| tftp route bridge VLAN show >> resat_defeult write raboet su sys_info ping exit | Default IFTP parameter configuration Nouting parameter configuration Transparent bridging parameter configuration Uireless LAN configuration Showing system configuration to default statu Weith configuration to default statu Weith configuration and restart system Rostart system and activate new system confi Change to superviser(part) and Show system information Fing test Jacobe privilidge command or disconnect | n S İguratlen |
| Command : reset_def Message : Please in | wit (CR) put the following information. | the - starts 1 |
| Аме уом зиме(у/n) ? | | |
| | | |

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 | and the state of the second | |
|---|---|---|
| SOHOware Telest Man | ager | Version 3.5 |
| ip_share dhop dhop_ ttpp route bridge ULGN show show show reset_default >> urite reboot gu | MAT parameter configuration DHCP parameter configuration DHS proxy parameter configuration Default IFIP parameter curfiguration Transparent bridging parameter con Use Jess LEM configuration Bauding system configuration Reset system configuration to defa Urit configuration and restart as Restart system and activate new as Change to supervisor(soch mode | lon Afiguration wilt status ystem ostem configuration |
| Command : write <cr Message : Flease in</cr |) put the following information. | I Privilege : MAN 1 |
| Аме уош гиме(у/п) ? | 1- | |
| 'UP/DOWN' Move, 'RI | GWI/LEFI' Select/Unselect, 'Mome/Ind' | Top/Betton (^Q-HELP) |

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

Reboot

| Teinet 192.168.1.1 | and the state of the | |
|---|---|--|
| SOHOware Telest Mar | ager | Version 3.6 |
| ip_share dhop dns_proxy tftp route bridge ULAN show reset_default write sy reboot gu | NAT parameter configurat DHCP parameter configurat DHCP proxy parameter configurat Default IFTP parameter config Transparent bridging per Viveless LAM configuratis Shouing ageten configurat React system configurat Write configuration and React system and active Change to superviser(sec) | ion tion tion synration unstitution netur configuration unto for default status restart system ate new system configuration to new system |
| Connand : reboot () Message : Please in | R) put the following information | t renoitege : going i |
| Do you want to mebo | ot system to activate new c | onfiguration(y/n) ? : |
| 'UP/DOWN' Move_ 'R) | GHI/LEFT' Select∕Unselect, | 'Home/End' Top/Betton [^Q-HELP] |

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

Su



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

Sys_info

| Teinet 192.168.1.1 | |
|---|---------------------------------|
| SOHOware Telmet Manager Status Hindow | Version 3.5 |
| C1) General system information Hodel : GL2411KT-881 Software Version : 8.255 Build : ARM S3C45108 FAAN : RMB Flash : RMB Chipact : Firmware Version : Server IP Address : 192.168.1.1 Hostname : PR-SERVER | |
| Press Any Key to Return Menu Vindov 'UP/DOWN' Move, 'RIGHI/LEFI' Select/Unselect, | 'Home∕End' Top/Rotton (^Q-HELP) |

Hit "Enter" on sys_info and it will take you to a status screen.

Ping

| Teinet 192.166.1.1 | the second se | | -11 | |
|--|---|---------------------|-----|--|
| SOHOware Telest Ma | nager | Version | 3.6 | |
| tftp route bridge ULAN show reset.default write rebet su ays_info ays_info evit | Default TFTP parameter configuration Houting parameter configuration Transparent bridging parameter configuration Shouing system configuration Shouing system configuration Hoset system configuration to default statu Units configuration and restart system Rostart system and activate new system conf Ghange to superviser(root) mode Shou system information Ping test Utable privilidge command or disconnect | n 3 iguration | | |
| Command : ping <ip Message : Please i</ip | > [1~655341-t] [1~1999] ngut the following information. | ede : WW | 1 1 | |
| IF address <ip> :</ip> | | | | |
| 'UP/DOWN' Move. 'B | IGHT/LEFT' Select/Unselect, 'Home/End' Yop/Bott | on (^Q-He | 1p] | |

Hit "Enter" on ping and it will prompt you for a IP address to ping to.

Exit

| Telnet 192.168.1.1 | the second s | |
|--|--|--|
| SOHOware Telest Mana | ge P | Version 3.6 |
| tftp route bridge VLAN show respt_default write reboot sus_info sis_info >> exit | Default IFIP parameter configurat Routing parameter configuration Transparent bridging parameter of Wire less LAN configuration Showing system configuration to def Write configuration to def Write configuration and restarts Rostart system and activate new s Change to superviser(root) mode Show system information Ping test Disable privilidge command or dis | on figuration ult status stam stam configuration penoot (Pointiane : 200700) |
| Command : exit (CR) Nessage : 'UP/DOWN' Move. 'RIG | HI/LEFI' Select/Unselect, 'Home/End | * Top/Bettom (^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.

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| ıre |
| Ire |
| |
| |
| es |
| rult |
| Passal |
| |

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

| ternet Protocol (TCP/IP) Pro | perties | ? |
|---|--|---------------------|
| General Alternate Configuration | 1 | |
| You can get IP settings assigned this capability. Otherwise, you not the appropriate IP settings. | d automatically if your network su eed to ask your network administ | pports rator for |
| Obtain an IP address auto | matically | |
| C Use the following IP addre | \$5. | 1 |
| IP address: | 8 8 9 | |
| Subnet mesk: | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5 |
| Default gateway: | | 1 |
| Obtain DNS server addres Use the following DNS server | s automatically ver addresses: | |
| Preferred DNS server: | | |
| Alternate DNS server. | | |
| | Adv | anced |

- 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.

| | SIS NIC 9 | ISNIC | |
|-----------------|------------------|------------------------------|--|
| Adapter Address | 00-E0 |)-18-25-A3-59 | |
| IP Address | 19 | 192.168.1.2 255.255.255.0 | |
| Subnet Mask | 255 | | |
| Default Gateway | 19 | 92.168.1.1 | |
| ОК | Relea <u>s</u> e | Renew | |
| Belease All F | Renew All | More Info >> | |

• 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.

| C/\WINNT\System32\omd.ene | |
|---|---|
| Microsoft Windows XP EVersion 5.1.25001 (C) Copyright 1985-2001 Microsoft Corp. | - |
| C:\Documents and Settings\Administrator)ipconfig | |
| Windows IP Configuration | |
| Ethernet adapter Local Area Connection: | |
| Gonnection-specific DNS Beffix .: IP Address: 192.168.1.3 Subnet Mash: 255.255.2 Default Gateway | |
| C+\Documents and Settings\Administrator> | |
| | |
| | |
| | |
| | - |

This concludes the user manual.

Should you require further assistance or have other inquires 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: 1MbyteSDRAM: 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 OperationChannel I1Channel(America,Canada) I3Channel(Europe) 4 Channel (Japan) Non-Overlapping channels: 3 Receive Sensitivity: -88dBm@1Mbps,-86dBm@2Mbps,-84dBm@5.5Mbps, - 80dBm@11Mbps Output Power: 18-20 dBm max. |
| Wired Network | . 10/100 Base-T LAN support |
| architecture | |
| 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 MaskPlease 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.