

**108Mbps Wireless Network
Access Point**

USER MANUAL

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1. Product Feature

- Compliance with IEEE 802.11g and 802.11b standards
- High efficient design mechanism to provide unbeatable performance
- Achieving data rate up to 54Mbps for 802.11g and 11Mps for 802.11b with wide range coverage
- Network security with WEP
- Quick and easy setup with Web-based management utility.

2. Getting Start

2.1 Know the 108Mbps Wireless Ethernet Adapter

Ports:

- Power Receptor
- Reset Button
- RJ-45 Ethernet Port

Straight through cable is required to connect with router or switch

Cross-over cable is required to connect to computer directly

LEDs:

- Power LED: ON when the unit is powered up
- WLAN LED: ON indicates WLAN is working; BLINK indicates wireless activity.

2.2 Connect to the 108Mbps Wireless Ethernet Adapter

This wireless Ethernet adapter transforms the Ethernet-enabled devices to have the wireless function. The wireless Ethernet adapter enables wireless communication over your network. There are two examples shown as the below.

Infrastructure Mode:



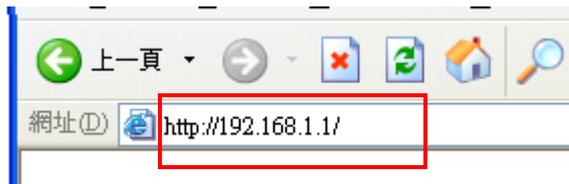
Ad-Hoc Mode:



2.3 Configuration via Web Manager

2.3.1 Access the Setting Menu

You could start to access the configuration menu anytime by opening a web browser window by typing the IP address of this access point. The default IP is 192.168.1.1.



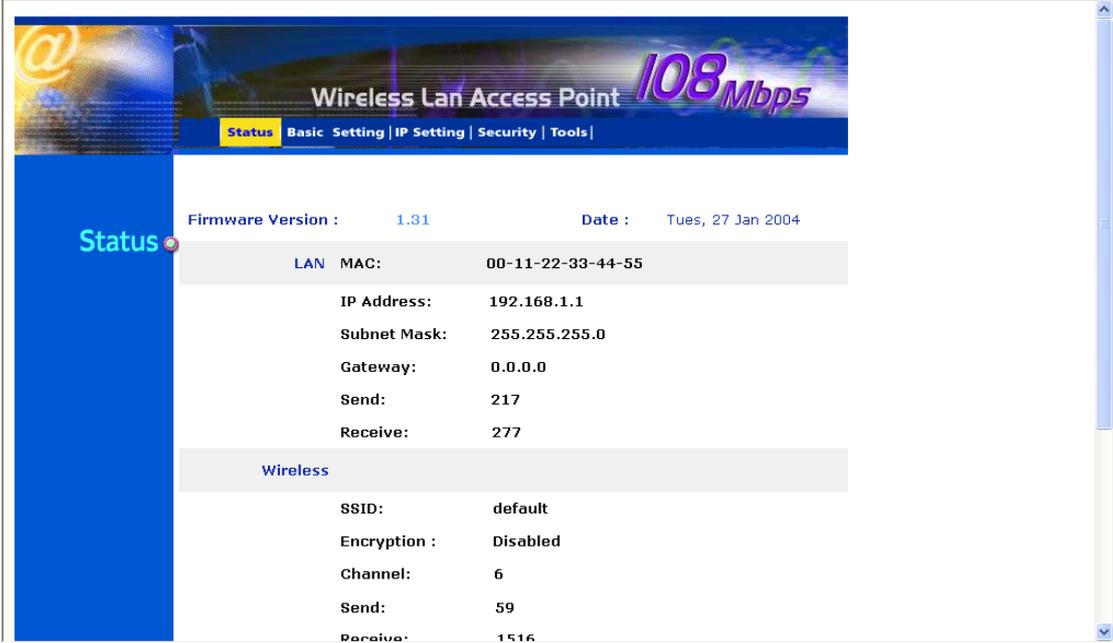
The below window will popup. Please enter the user name and password. Both of the default is “admin”.



Now, the main menu screen is popup.

2.3.2 Status

This page as below shows you the following information.



The screenshot displays the 'Status' page of a Wireless LAN Access Point. The page header includes the title 'Wireless Lan Access Point 108Mbps' and navigation tabs for 'Status', 'Basic', 'Setting', 'IP Setting', 'Security', and 'Tools'. The 'Status' page shows the following information:

Firmware Version :		Date :
Firmware Version :	1.31	Tues, 27 Jan 2004
LAN		
MAC:	00-11-22-33-44-55	
IP Address:	192.168.1.1	
Subnet Mask:	255.255.255.0	
Gateway:	0.0.0.0	
Send:	217	
Receive:	277	
Wireless		
SSID:	default	
Encryption :	Disabled	
Channel:	6	
Send:	59	
Receive:	1516	

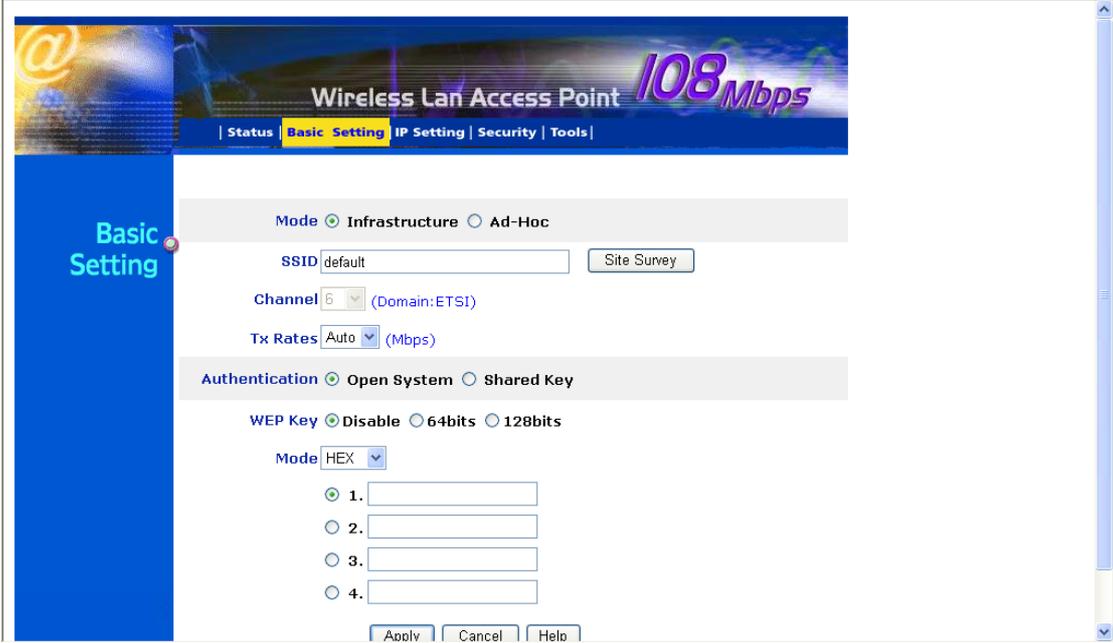
Firmware Version: Shows the current firmware version.

LAN: Shows the Mac address, IP address (default: 192.168.1.1), Subnet Mask, Gateway Address. The current LAN traffic calculated in terms of number of packets sent and received by AP through wired connection is also displayed.

Wireless: Shows the Mac address, current SSID, the status of Encryption Function (Enable or Disable), the current using channel. The current wireless traffic calculated in terms of number of packets sent and received through wireless communication is also displayed.

2.3.2 Basic Setting

This is the page allow you to change the access point.



The screenshot shows the configuration interface for a Wireless Lan Access Point. The page title is "Wireless Lan Access Point 108Mbps". The navigation menu includes "Status", "Basic Setting" (selected), "IP Setting", "Security", and "Tools". The "Basic Setting" section is highlighted in blue on the left. The configuration options are as follows:

- Mode:** Infrastructure (selected), Ad-Hoc
- SSID:** default (text input), Site Survey (button)
- Channel:** 6 (dropdown), (Domain: ETSI)
- Tx Rates:** Auto (dropdown), (Mbps)
- Authentication:** Open System (selected), Shared Key
- WEP Key:** Disable (selected), 64bits, 128bits
- Mode:** HEX (dropdown)
- WEP Key Entry:** Four numbered input fields (1, 2, 3, 4) with radio buttons.

Buttons at the bottom: Apply, Cancel, Help.

Mode: Operating mode. This Ethernet adapter supports infrastructure and Ad-Hoc mode.

SSID: Service Set Identifier, which is a unique name shared among all clients and nodes in a wireless network. The SSID must be identical for each clients and nodes in the wireless network.

Channel: The channel that AP will operate in. In Ad-Hoc mode, you can select the channel range of 1 to 11 for North America (FCC) domain, 1 to 13 for European (ETSI) domain and 1 to 14 for Japanese domain.

Tx Rate: Select the data rate for data transmission. Default is auto.

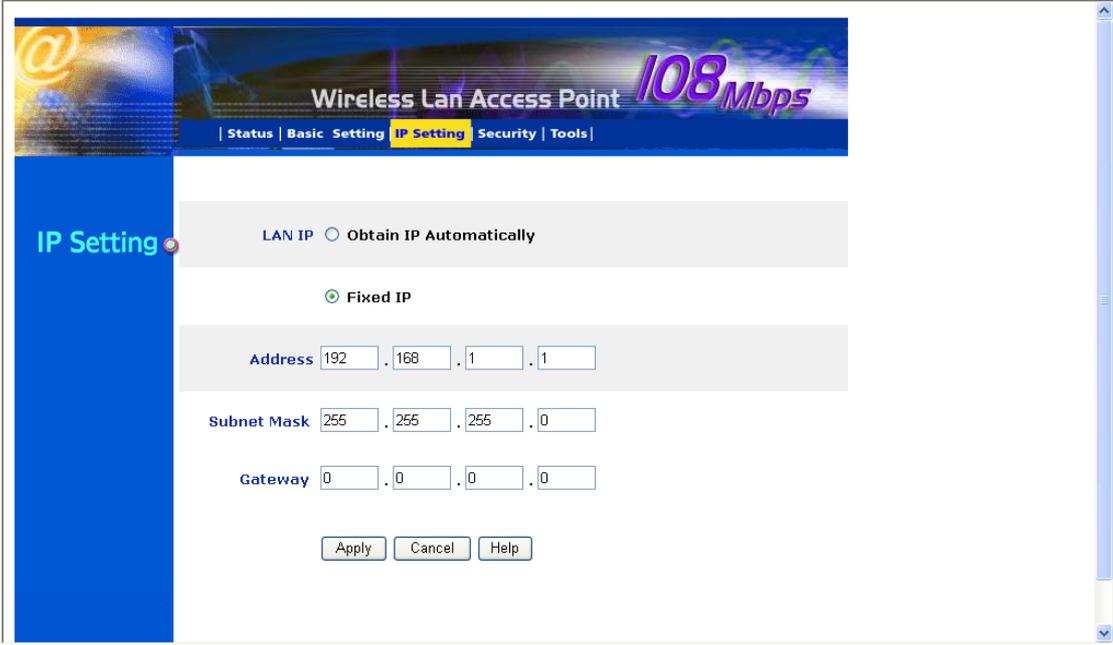
Authentication Type: The authentication type default is set to open system. It means the sender and receiver do not share secret Key for communication. Shared Key is the sender and receiver shares the common key for data communication, and the key is used for extended length of time.

WEP Key: WEP data encryption feature. To disable WEP security, click on the "Disable" option. To enable WEP security, there are 2 types to select – 64bits and 128 bits. When it is selected, the key value must be entered in ASCII or HEX format.

Apply: For the changes made to any of the items above to be effective, click “Apply”. The new settings are now been saved to Access Point and will be effective once the Access Point restarts.

2.3.3 IP Setting

This page allows you to configure the IP of the wireless Ethernet adapter.



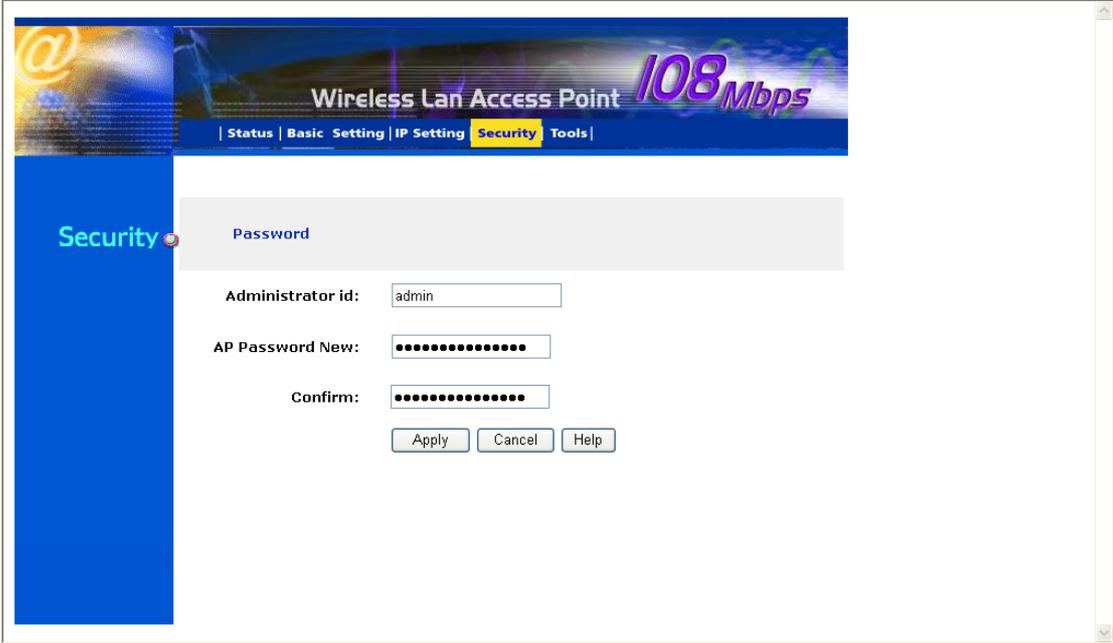
The screenshot displays the 'IP Setting' page for a 'Wireless Lan Access Point 108Mbps'. The page has a blue header with navigation tabs: 'Status', 'Basic Setting', 'IP Setting' (highlighted), 'Security', and 'Tools'. A left sidebar contains the 'IP Setting' title. The main content area shows two radio button options: 'LAN IP' (unselected) and 'Obtain IP Automatically'. The 'Fixed IP' option is selected. Below this, there are three rows of input fields: 'Address' (192, 168, 1, 1), 'Subnet Mask' (255, 255, 255, 0), and 'Gateway' (0, 0, 0, 0). At the bottom, there are three buttons: 'Apply', 'Cancel', and 'Help'.

The default IP address is 192.168.1.1 with the subnet mask of 255.255.255.0. You can type in other values for IP Address, Subnet Mask and Gateway and click “**Apply**” button for the changes to be effective.

You can also set to obtain the IP from a DHCP server. Select the option “Obtain IP Automatically” and click “**Apply**” button for the changes to be effective.

2.3.4 Security

This page is where you configure the security feature.



The screenshot shows the configuration interface for a Wireless LAN Access Point. The header includes the text "Wireless Lan Access Point 108Mbps" and a navigation menu with "Status", "Basic Setting", "IP Setting", "Security" (highlighted), and "Tools". A blue sidebar on the left contains the word "Security". The main content area is titled "Password" and contains the following fields and buttons:

- Administrator id:
- AP Password New:
- Confirm:
- Buttons:

Password: Allow you to change the new login password. Here are the necessary steps:

1. Enter the new password in the “**AP Password New:**” field.
2. Enter the new password again in the “**Confirm**” field.
3. Click “**Apply**”

2.3.5 Tools

Four functions are provided in this page, Backup, Restore Settings, Restore default settings and Firmware Upgrade.



Backup Settings: Click on “**Backup**” button, which will open a FileSave Dialog box, where you get to save all the current settings and configurations to a file.

Restore Settings: Click on the “Browse” button to open a FileOpen Dialog box, where you get to select the file, which you save previous settings and configurations. Upon selecting the saved file, click “**Restore**” and complete the restore process when the access point re-operates after it restarts.

Restore to default settings: Click on “Default” button to restore the access point back to its manufacture default settings.

Firmware Upgrade: Click on the “Browse” button to open a FileOpen Dialog box, where you get to select the firmware file, which you download from the web for the latest version. Upon selecting the firmware file, click “**Upgrade**” and complete the firmware upgrade process when the Access Point re-operates after it restarts.

3. Configuration through the Utility

3.1 Link Information

Link information is showing you the related current setting of the first AP.

The screenshot displays the 'Link Information' section of the configuration utility. The left sidebar contains navigation options: 'Link Information' (highlighted), 'AP Settings', 'IP Settings', and 'Security'. The main content area is divided into two sections: 'Status' and 'Available AP'.

Status

ESSID : default
IP Address : 192.168.1.1
Mac Address : 00-0D-88-C5-09-E5
Channel : 6
WEP Security : Disable

Available AP

AP Name	Mac Address	SSID	WEP
Wireless Access Po	00-0D-88-C5-09-E5	default	No

Copyright 2003
Wireless Ethernet Adapter Configuration Utility
version 1.3

Apply Refresh Close

3.2 AP Settings

Link Information
AP Settings
IP Settings
Security

Basic Setting

Mode Infrastructure Ad-Hoc

ESSID

Channel

Available AP

AP Name	Mac Address	SSID	WEP
Wireless Access Point	00-0D-88-C5-09-E5	default	No

Copyright 2003
Wireless Ethernet Adapter Configuration Utility
version 1.3

Apply Refresh Close

Basic Setting:

You could select the mode – Infrastructure and Ad-Hoc

ESSID: It is used by all wireless devices within the wireless network.

Channel: The channel is selective in Ad-Hoc. Select the appropriate channel from the dropping list.

3.3 IP Setting

Copyright 2003
Wireless Ethernet Adapter Configuration Utility
version 1.3

AP Name	Mac Address	SSID	WEP
Wireless Access Point	00-0D-88-C5-09-E5	default	No

Fixed IP Address: Users can assign a fixed IP address to this AP manually.

DHCP Client: Enable the DHCP client function by clicking the radio button if you have the DHCP server running in your LAN network.

3.4 Security

The screenshot shows the 'Security' configuration window of the Wireless Ethernet Adapter Configuration Utility. On the left, a blue sidebar contains navigation links: 'Link Information', 'AP Settings', 'IP Settings', and 'Security' (highlighted in yellow). The main content area is divided into three sections:

- Data Encryption:** A checkbox labeled 'Data Encryption' is currently unchecked.
- Auth. Mode:** A dropdown menu is set to 'Open Authentication'.
- WEP Key Setting:** A sub-section containing:
 - Two radio buttons for 'Hex' (selected) and 'ASCII'.
 - A 'Key Length' dropdown menu set to '64 bits'.
 - Four text input fields labeled 'Key 1', 'Key 2', 'Key 3', and 'Key 4', each containing a series of asterisks.
- Available AP:** A table listing available wireless access points.

At the bottom left, the text reads: 'Copyright 2003 Wireless Ethernet Adapter Configuration Utility version 1.3'. At the bottom right, there are three buttons: 'Apply', 'Refresh', and 'Close'.

AP Name	Mac Address	SSID	WEP
Wireless Access P	00-0D-88-C5-09-E5	default	No

Data Encryption: please tick it if you like to have WEP key as the data encryption mechanism.

Authentication Type: The authentication type default is set to open system. It means the sender and receiver do not share secret Key for communication. Shared Key is the sender and receiver shares the common key for data communication.

WEP Key Setting: This will be enabled only while data encryption is selected. The key value must be entered in ASCII or HEX format by clicking the radio button. Besides, there are two options for the key length: 64bits or 128bits. There are four key sets are available to assign.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

GLOBAL SUN TECHNOLOGY INC. declare that GL2454AP-QA1/GL2454AP-QA3 □
(802.11g Wireless Access Point/802.11g Ethernet Adapter) is limited in CH1~CH11 by □
specified firmware controlled in USA."