

BiPAC 3100SN

Wireless-N Wall Plug Ethernet Access Point

User Manual

FW Version 1.06k-c

Last revised on Sep 2010

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Safety Warnings

- 1. Do not use the adapter in high humidity or high temperature environment.
- 2. Do not open or repair the case yourself.
- 3. Avoid using this product and all its accesories outdoor.
- 4. Place the adapter on a stable surface.
- 5. Plug your Ethernet Access Point device directly to the AC outlet on the wall. It is best to avoid using extension power cable as it may possess noise filter or surge protector functions that may cause interference that may impact the performance of the device.

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Chapter 1: Product

1.1 Introduction

Thank you for purchasing BiPAC 3100SN Wireless-N Wall Plug Ethernet Access Point. Your new device is an unit that extends your wireless coverage.BiPAC 3100SN can be used to bridge Ethernet devices such as modems, routers, PCs, set-top-boxes, and game consoles, allowing users to share network access via existing in-home power cabling.

What's unique is that the device has an extra built-in 802.11n Access Point, enabling users to enjoy mobility, high-speed wireless connection and better coverage with no more dead zones. Just plug BiPAC 3100SN into any wall power socket, and you can easily set up a secure wireless network by pressing the Wi-Fi Protected Setup (WPS) button. Thus, the adapter can extend your wireless coverage for multimedia applications such as online games, IPTV and audio streaming from room to room.

Extended Wireless Coverage

With an integrated 802.11n Wireless Access Point, the adapter can bridge wireless connections of up to 6 times the speed and 3 times the wireless coverage of an 802.11b / g network device. It supports a data rates up to 300Mbps and is also compatible with 802.11b / g equipment.

• 802.11g / 802.11n Wireless AP with WPA / WPS Support

With an integrated 802.11g / 802.11n Wireless Access Point, the device supported the features of Wi-Fi Protected Access (WPA-PSK/ WPA2-PSK) and Wired Equivalent Privacy (WEP) which enhance the security level of data protection and access control via Wireless LAN. The device also supports the Wi-Fi Protected Setup (WPS) standard, allowing users to establish a secure wireless network by simply pushing a button.

Rich Management Interfaces

It supports flexible management interfaces with LAN and WLAN. Users can use WEB GUI through the above interfaces to configure and manage the device.

Web based GUI

It supports web based GUI for configuration and management. It is user-friendly

Firmware Upgradeable

Device can be upgraded to the latest firmware through the WEB based GUI.

1.2 Features

• Provides physical layer data rate of up to 300Mbps over wireless

• Deliver up to 6 times speed and extended 3 times wireless coverage of a 802.11b/g network device

- WPS (Wi-Fi Protected Setup) for easy setup
- · Auto channel select
- · Supports Triple Play applications such as IPTV, VoIP and high-speed Internet access
- Supports 10/100 BaseT Ethernet
- · Ideal for residential users

Chapter 2: Installing the Adapter

2.1 Package Content

- BiPAC 3100SN Wireless-N Wall Plug Ethernet Access Point
- Quick Start Guide
- CD (containing user manual and QSG)
- Ethernet (CAT-5 LAN) cable



- Do not use the adapter in high humidity or high temperatures.
 - Do not open or repair the case yourself.
 - Avoid using this product and all accessories outdoors.



Warning

Place the AP on a stable surface.

2.2 Device Overview



The Description of each labeled part is described in the table below.

WLAN LED	Lit green when the wireless function is enabled.
	Blinking when data is transmitted or received via WLAN.
	Blinking quickly when WPS is proceeded.
Power LED	Lit green when the device is power on.
	Lit off when power is off.
ETH (Ethernet	Lit green when connected to an Ethernet device.
Link/Act) LED	Blinking when data is transmitted or received via Ethernet port.
WPS Button	Push this button to trigger Wi-Fi Protected Setup function.
Reset Button	Press this button for more than 2 seconds until WLAN LED blinking and then release this button to reset device to factory default settings.
Ethernet Port	Connect the Ethernet Access Point device with an Ethernet device (e.g. computer, router, hub/switch, IP pone, IPTV set-top-box, gaming consoles), using the RJ-45 Ethernet cable included.
Power Plug / AC Power Cord	Plug into an AC outlet for power supply.
Clip Socket	Install the clip into this socket.
	Note: Please DO NOT remove or disassemble the socket clip frequently as this may cause serious damage on your Ethernet Access Point device.



Please DO NOT remove or disassemble the socket clip frequently as this may cause serious damage to your device!



Above is an example of an EU plug-socket type and AC power cable. Both plug-socket and power cable type and input voltage/frequency may vary for different countries.

2.3 Hardware Installation

Refer to the following diagrams and instructions to install the clip with BiPAC 3100SN:

Example 1: EU clip

- Please check the lock instruction on your clip.
- If you got the "Triangle Lock", refer to right diagram.





Example 2: UK clip

- Please check the lock instruction on your clip.
- If you got the "Circle Lock", refer to right diagram.





2.4 Connecting the Access Point

It is easy to connect BiPAC 3100SN simply by performing the following instructions:

2.4.1 Power Connection

Plug BiPAC 3100SN into the wall outlet/socket.



2.4.2 LAN & Wireless Connection

Connect the supplied RJ-45 Ethernet cable to the Ethernet port on BiPAC 3100SN and the other side to the device's Ethernet interface.

You can enable wireless function to connect to the Wi-Fi devices through WPS configuration interface or by pushing the WPS button of your 3100SN.



Note: For WPS configuration please refer to Wi-Fi Protected Setup section for more detail description.

2.4.3 Product Application



WDS Bridge MODE

WDS Repeater / Lazy MODE



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Chapter 3: Basic Network Installation

The Ethernet Access Point can be configured through your web browser. A web browser is included as a standard application in the following operating systems: Linux, Mac OS, Windows 98/NT/2000/ XP/Me/Vista/7, etc. The product provides an easy and user-friendly interface for configuration.

Please check your PC network components. The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to your Windows-related or other operating system manuals.

There are ways to connect the device, either through an external repeater hub or connect directly to your PCs. However, make sure that your PCs have an Ethernet interface installed properly prior to connecting the device. You ought to configure your PCs to obtain an IP address through a fixed IP address that must be in the same subnet as the device. The default IP address of the device is 192.168.1.253 and the subnet mask is 255.255.255.0 (i.e. any attached PC must be in the same subnet, and have an IP address in the range of 192.168.1.1 to 192.168.1.252). If you encounter any problem accessing the Ethernet Access Point web interface it is advisable to uninstall your firewall program on your PCs, as they can cause problems accessing the IP address of the device. Users should make their own decisions on what is best to protect their network.

Please follow the following steps to configure your PC network environment.



Any TCP/IP capable workstation can be used to communicate with or through this AP. To configure other types of workstations, please consult your manufacturer documentation.

3.1 Network Configuration

3.1.1 Configuring PC in Windows 7

- 1. Go to Start. Click on Control Panel.
- 2. Then click on Network and Internet.

3. When the Network and Sharing Center window pops up, select and click on Change adapter settings on the left window panel.

4. Select the Local Area Connection, and right click the icon to select Properties.



- -

5. Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.

- In the TCP/IPv4 properties window, click Use the following IP address and Use the following DNS server address radio buttons. Then click OK to exit the setting.
- 7. Click OK again in the Local Area Connection Properties window to apply the new configuration.

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3.1.2 Configuring PC in Windows Vista

- 1. Go to Start. Click on Network.
- 2. Then click on Network and Sharing Center at the top bar.

3. When the Network and Sharing Center window pops up, select and click on Manage network connections on the left window column.

 Select the Local Area Connection, and right click the icon to select Properties.



5. Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.

- In the TCP/IPv4 properties window, click Use the following IP address and Use the following DNS server address radio buttons. Then click OK to exit the setting.
- 7. Click OK again in the Local Area Connection Properties window to apply the new configuration.

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3.1.3 Configuring PC in Windows XP

- Go to Start > Control Panel (in Classic View). In the Control Panel, double-click on Network Connections
- 2. Double-click Local Area Connection.
- 3. In the Local Area Connection Status window, click Properties.

4. Select Internet Protocol (TCP/IP) and click Properties.

- 5. Click Use the following IP address and Use the following DNS server address radio buttons.
- 6. Click OK to finish the configuration.

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3.1.4 Configuring PC in Windows 2000

- Go to Start > Settings > Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Double-click Local Area Connection.

3. In the Local Area Connection Status window click Properties.

4. Select Internet Protocol (TCP/IP) and click Properties.

- 5. Click Use the following IP address and Use the following DNS server address radio buttons.
- 6. Click OK to finish the configuration.



3.1.5 Configuring PC in Windows 95/98/Me

- Go to Start > Settings > Control Panel. In the Control Panel, double-click on Network and choose the Configuration tab.
- Select TCP/IP > NE2000 Compatible, or the name of your Network Interface Card (NIC) in your PC.

- 3. Click Specify an IP address radio button.
- 4. Click OK to finish the configuration.

Optiguration I Identification [Assess Control]
Tuentification Access Control
The following network components are installed:
Microsoft Family Logon
SUSTEK/Broadcom 440x 10/100 Integrated Controller
🗒 Dial-Up Adapter
TCP/IP -> ASUST eK/Broadcom 440x 10/100 Integrated TCP/IP -> Dial-Lo Adapter
Add Remove Properties
Primary Network Logon:
Microsoft Family Logon
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wide-area networks.
UK L'ancel
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Specify an IP address IP Address: 192.168.1.11 Subnet Mask: 255.255.255.0 OK Cancel

3.1.6 Configuring PC in Windows NT4.0

- 1. Go to Start > Settings > Control Panel. In the Control Panel, double-click on Network and choose the Protocols tab.
- 2. Select TCP/IP Protocol and click Properties.

- 3. Click Specify an IP address radio button.
- 4. Click OK to finish the configuration.

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Netwo	ork Protocols:		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	etBEUI Proto WLink IPX/S WLink NetBI CP/IP Protoc	ocol SPX Compatible Transport IDS col	
	<u>\</u> dd	Bemove Properties	
dive	rse interconn	rected networks.	
		OK Cancel	
crosof	t ТСРЛР Р	Properties ?	
P Addr	ess DNS	WINS Address Routing	
An IP by a l ask y the sj	address can DHCP server, our network a pace below,	be automatically assigned to this network card . If your network does not have a DHCP server, administrator for an address, and then type it in	
	ter:		
Adap		D D C D C	
Ada <u>p</u>	r network ada		
Adap Ifyou	<u>O</u> btain an IP	address from a DHCP server	
	<u>O</u> btain an IP <u>S</u> pecify an If	P address from a DHCP server P address	
	Dbtain an IP Specify an If Address:	P address from a DHCP server P address 192.168.1.11	
Adag	<u>D</u> btain an IP <u>S</u> pecify an If Address: ibnet Mask:	P address from a DHCP server P address 192.168.1.11 255.255.255.0	
Adap Note IP Sy D	Dbtain an IP Specify an IF Address: Jonet Mask:	P address from a DHCP server IP address 192.168.1.11 255.255.255.0	
Adap Iver IP Su Do	Dtain an IP Specify an If Address: Jonet Mask: afault Gatewa	P address from a DHCP server IP address IP address 192.168.1.11 255.255.255.0 ay: Advanced	

3.2 Factory Default Settings

Before configuring your adapter, you need to know the following default settings.

Web Interface (Username and Password)

- Username: admin
- Password: admin

The default username and password are "admin" and "admin" respectively.

Device LAN IP settings

- ▶ IP Address: 192.168.1.253
- Subnet Mask: 255.255.255.0

3.3 Internet Access Configuration

To configure this device for internet access, you must have IE 5.0 / Netscape 4.5 or above installed on your computer. There is basically one way to configure your device before you are able to connect to the internet: Web Interface. Configuration of this method will be discussed in detail in the following section.

3.3.1 Configuring with your Web Browser

Open your web browser, enter the IP address of your Ethernet Adapter which the default is 192.168.1.253, and click "Go". A user name and password window prompt will appear. The default username and password are "admin" and "admin".

Connect to 192.1	68.1.253
	GP
The server 192.168. username and passw Warning: This server password be sent in a without a secure con	1.253 at WEB Server requires a ord. is requesting that your username and an insecure manner (basic authentication nection).
User name:	🙎 admin 💌
Password:	•••••
	Remember my password
	OK Cancel

Congratulations! You are now successfully logon to the Wireless-N Ethernet Access Point!

If the authentication succeeds, the homepage will appear on the screen.

Status	
▼ System Information	
Model Name	3100SN
Firmware Version	1.06k-c (Sep 13 2010)
System Up Time	16 mins, 53 secs
Home URL	Billion
▼LAN	
LAN IP Address	192.168.1.253
LAN Netmask	255.255.255.0
LAN MAC Address	00:24:6F:00:00:56
▼Wireless LAN	
WLAN Service	Enable
SSID1	Billion-3100SN
Channel	6

Chapter 4: Configuration

Once you have logged on to your adapter GUI via your web browser, you can begin to configure the device according to your needs. On the configuration homepage, the left navigation pane provides the links to different setup pages. They are:

- Status (Status / Statistic)
- LAN Setting (LAN Setup)
- * Wireless Settings (Basic / Security / Advanced / WPS / AP Client / Station List)
- Administration (Management / Firmware Upgrade / Settings Management / Restart)
- Each of these setup pages will be discussed in detail in the following sections.

4.1 Status

4.1.1 Status

Status

▼ System Information	
Model Name	3100SN
Firmware Version	1.06k-c (Sep 13 2010)
System Up Time	16 mins, 53 secs
Home URL	Billion
▼LAN	
LAN IP Address	192.168.1.253
LAN Netmask	255.255.255.0
LAN MAC Address	00:24:6F:00:00:56
▼Wireless LAN	
WLAN Service	Enable
SSID1	Billion-3100SN
Channel	6

• System Information

Model Name: Displays the model name.

Firmware Version: Displays the firmware version for this device.

System Up Time: Records system up-time.

Home URL: Displays the Internet address for vendor. Click to open the home page of Billion website.

• LAN

LAN IP Address: The current IP on this device.

LAN Netmask: The current subnet mask on this device.

Note: Click the LAN IP Address or LAN Netmask link to change the settings . LAN MAC Address: The MAC address of the device.

• Wireless LAN

WLAN Service: Status of the WLAN connection.

SSID1: A unique name used to identify the wireless LAN to which a user wants to connect.

Channel: The current status in WAN interface.

Note: Click the WLAN Service, SSID or Channel link to change the settings.

4.1.2 Statistic

Statistic	
▼ Memory	
Memory total	12972 kB
Memory left	4936 kB
▼LAN	
LAN Rx packets	5768
LAN Rx bytes	655626
LAN Tx packets	6197
LAN Tx bytes	3432234

• Memory

Memory total: Displays the total memory size of the device (in bytes).

Memory left: Displays the amount of memory left (in bytes).

• LAN

LAN Rx packets: Displays the number of received packets.

LAN Rx bytes: Displays the received packet traffic (in bytes).

LAN Tx packets: Displays the number of transfered packets.

LAN Tx bytes: Displays the transfered packet traffic (in bytes)

4.2 LAN Setting

4.2.1 LAN

Local Area Network (LAN) Settin	gs
►LAN Setup	
IP Address	192.168.1.253
Subnet Mask	255.255.255.0
LAN2	◯ Enable ④ Disable
LAN2 IP Address	
LAN2 Subnet Mask	
UPNP	Disable 🐱
	Apply Cancel

• IP Address: Enter the preferred IP address. Default is 192.168.1.253.

• Subnet Mask: Enter the preferred subnet mask. Default is 255.255.255.0.

• LAN2: This function enables the creation of multiple virtual IP interfaces for this device. It helps to connect two or more local networks to the ISP or remote node. In this case, an internal device is not required. Default setting is Disable. If you want to active IP Alias function, please select Enable.

• LAN2 IP Address: Specify an IP address for this virtual interface.

• LAN2 Subnet Mask: Specify a subnet mask for this virtual interface.

• **UPNP:** UPnP offers peer-to-peer network connectivity for PCs and other network devices, along with the feature to control data transfer between devices. Default is **Disable**.

* Enable: Select to activate the device's UPnP function.

A Disable: Select to inactivate the device's UPnP function.

• Click **Apply** to save the changes or **Cancel** to recover the default setting.

4.3 Wireless Settings

When you click this item, the column will expand to display the sub-items that will allow you to configure your wireless settings. You will see the following five items:

- Basic
- Security
- Advanced
- WPS
- AP Client
- Station List

The function of each configuration sub-item is described in the following sections.

4.3.1 Basic-Basic Wireless Settings

Wireless Network

Basic Wireless Settings	
▼Wireless Network	
Wireless Service	• Enable Obisable
Wireless Mode	11b+g+n mixed mode 💌
SSID1	Billion-3100SN
Multiple SSID Service	Disable VExtension SSID
Client Isolation	SSID1
Hide SSID	⊙ Disable ○ Enable
Country Region	Europe (Channel:1-13)
Channel (Frequency)	Channel 6 (2437MHz)
Channel BandWidth	○ 20 ④ 20/40
BSSID	00:24:6F:00:00:56
▼Wireless Distribution System(WDS)	
WDS Mode	Disable
AAD2 Mode	
Apply	Cancel

• Wireless Service: Default setting is Enable. If you do not have any wireless, select Disable.

• Wireless Mode: The default setting is **11b+g+n mixed mode**. You can adjust the wireless mode depend on your system or enviornment.

• **SSID1:** The SSID is the unique name of a wireless access point (AP) used to distinguish one from another. For the security purpose, you should change the default SSID to a unique ID name that is difficult to guess. Make sure your wireless clients exactly have the SSID as the device in order to connect to your network.

Note: It is case sensitive and can be up to 32 characters.

Multiple SSID Service	3 Extension SSID
SSID2	
SSID3	
SSID4	
Multiple SSID Isolation	○ Enable
Client Isolation	

• **Multiple SSID Service:** You can select Disable, or 1, 2, 3 Extension SSID to be available at the same time. There are totaly four SSID extensions for you to set.

• Multiple SSID isolation: If you enable this function, each SSID can not forward packet each other.

• **Client Isolation:** The selection of SSIDs will depend on the Multiple SSID Service. Select each SSID, ranging from SSID1, SSID2, SSID3 and SSID4 and set their individual configurations. If you tick the check box, the wireless client that connected the SSID can not forward the packet each other.

• Hide SSID: If you want to hide your SSID, you can enable it. The defult setting is disable.

• **Country Region:** There are seven Country Regions to be chosen, including North America, Europe, France, etc. The Channel Frequency will be different based on this setting.

• Channel (Frequency): Select the wireless channel ID that you would like to use.

Note: Wireless performance may degrade if the selected channel ID is already being occupied by other AP(s).

• **Channel Bandwidth:** Select either 20 MHz or 20/40 MHz for the channel bandwidth. The higher the bandwidth the better the performance will be.

• **BSSID:** Displays the MAC address of the device.

Wireless Distribution System (WDS)

It is a wireless access point mode that enables wireless link and communication with other access points. It is easy to install simply by defining the peer's MAC address of the connected AP. WDS takes advantage of the cost saving and flexibility which no extra wireless client device is required to bridge between two access points and extending an existing wired or wireless infrastructure network to create a larger network.

WDS Mode: Default setting is Disable. You can enable the WDS functionality: Lazy Mode, Bridge Mode and Repeater Mode.

Lazy Mode

▼Wireless Distribution System(WDS)	
WDS Mode	Lazy Mode (AP+Bridge,Auto-Learning other WDS AP MAC Address)
WDS depends on the settings of main security en	crption type. Wireless Security
Apply	Cancel

• Lazy Mode: Select "Lazy Mode" from the WDS Mode drop-down menu. In this case, the device can be functioned as AP and Bridge. The AP MAC Address of WDS peers can be auto-detected. Please note that you are not allowed to set each AP to Lazy mode. It indicates that there is at least one AP can not be set in Lazy mode and filled the AP MAC address list.

• Wireless Security: This filed will display the encryption type in which you will set in WEP Keys fields (Please resfer to Wireless Security/Encryption Settings section after setting up the WDS Mode).

Bridge Mode

▼Wireless Distribution System(WDS)			
WDS Mode	Bridge Mode 🗸 (Only Bridge, Disable AP Function)		
WDS depends on the settings of main security encrption type. Wireless Security			
Phy Mode	HTMIX 🗸		
AP MAC Address	(All of the AP's channel must be the same in WDS.)		
AP MAC Address			
AP MAC Address			
AP MAC Address			

• **Bridge Mode:** Select Bridge Mode from the WDS Mode drop-down menu. In this case, AP will not send beacon out and deal with probe request packets, so that wireless client will not be possible to connect with this device. The device can use complete bandwidth of WDS connection.

• **Phy Mode:** This field is available when **Bridge Mode** is selected. There are 4 options: CCK (11b mode), OFDM(11g mode), HTMIX (11b/g/n mode) and GREENFIELD (11n mode).

• AP MAC Address: These fields display in WDS Bridge and Repeater Mode. Enter the associated AP's MAC Address(es) in these fields. Four MAC Adresses are allowed to be entered at one time. it is important that your peer's AP must include your MAC address and all of the AP's channel must be the same in WDS to acknowledge and communicate with each other.

Note: Please note that the AP MAC address can not duplicate the AP Client.

Repeater Mode

▼Wireless Distribution System(WDS)			
WDS Mode	Repeater Mode 🗸 (AP+Bridge)		
WDS depends on the settings of main security encrption type. Wireless Security			
AP MAC Address	(All of the AP's channel must be the same in WDS.)		
AP MAC Address			
AP MAC Address			
AP MAC Address			

• **Repeater Mode:** Select Repeater Mode from the WDS Mode drop-down menu. In this case, The packets can be forwarded to other AP via WDS connections. Here, AP functions similarly as that in Lazy Mode except that it needs to input other AP MAC address(es). Four MAC Adresses are allowed to be entered at one time. The Repeater Mode can establish the connection with other AP(s), and the wireless client(s) can connect the device too.

4.3.2 Security-Wireless Security/Encryption Settings

Wireless Security/Encryption Settings					
▼ Select SSI)				
SSID choice			Billi	on-3100SN 🔽	
SSID1:Billion-	3100SN				
Security Mode	e	Disable		*	
Wireless MAC	C Address Filter Table (The maxir	num item is 64	4)	
Rule	Disable 🐱				
Index	Jex MAC Address Index MAC Addres		MAC Address		
Add a new MA	Add a new MAC address (Ex:the format is "00:11:22:33:55:66")				
	<< Station MAC address List 🗸				
Add (After add the MAC address in to the table. It must press Apply button to enable the rule.)					
Apply Cancel					

Select SSID

• SSID choice: Select the SSID which you want to configure from the SSID list.

SSID1:Billion-3100SN

• **Security Mode:** You can disable or enable the wireless security function using WEP or WPA for wireless network protection. The default mode of wireless security is disabled. Please refer to the Security Mode section for detail descriptions (p. 31).

Wireless MAC Address Filter Table (The maximum item is 64)]

• **Rule:** Select from the drop-down menu to choose whether the entered MAC Address should be allowed to pass (Allow) or to be blocked (Reject). You can also disable this function.

• Add a station MAC address: Enter the MAC address of the wireless client. Then Click the Add button to add this MAC address. Then, click "Apply" to save the settings.

Note: When the Rule is selected as "Allow", all the MAC addresses you entered in the "Add a station MAC address field " will be passed; when the Policy is selected as "Reject", all the MAC addresses you entered in the "Add a station MAC address field" will be blocked.

4.3.2.1 Secuirty Mode

There are six Security Modes to be selected: WEP OPEN, WEP SHARED, WEP AUTO, WPA-PSK, WPA2-PSK, WPA2-PSK mixed mode.

WEP OPEN / WEP SHARED / WEP AUTO

SSID1:wlan-ap				
Security Mode		WEP AUTO	*	
WEP				
Default Key		Key 1 🐱		
WEP Keys	WEP Key 1 :			Hex 💌
	WEP Key 2 :			Hex 🗸
	WEP Key 3 :			Hex 🗸
	WEP Key 4 :			Hex 🗸

• Security Mode: Select WEP OPEN, WEP SHARED or WEP AUTO from the drop-down menu.

• Encryption Type: Only be available in WEP SHARED mode. You can select WEP or None.

WEP

• Default Key (1~4): Select the encryption key ID.

• WEP Keys (1~4): Enter the key to encrypt wireless data. To allow encrypted data transmission, the WEP Encryption Key values on all wireless stations must be the same as the device. There are four keys for your selection. The input format is in Hex or ASCII style. You can type 5 and 13 ASCII character required for 64bit and 128bit WEP key or 10 and 26 Hex codes required for 64bit and 128bit WEP key respectively.

WPA-PSK / WPA2-PSK / WPA-PSK/WPA2-PSK mix mode

SSID1:Billion-3100SN		
Security Mode	WPA-PSK/WPA2-PSK mix mode 🐱	
WPA		
WPA Algorithms	◯ TKIP ④ AES ◯ TKIP/AES mix mode	
Pass Phrase		
Key Renewal Interval	3600 seconds	

WPA

• **Security Mode:** Select WPA-PSK, WPA2-PSK or WPA-PSK/WPA2-PSK mix mode from the drop-down menu. The encryption key should be entered in PSK (Pre-Shared Key)

• WPA Algorithms: There are 3 types of the TKIP, AES & TKIP/AES mix mode (not available in WPA-PSK mode).

• TKIP / AES: Enter the encryption key (8~63 ASCII characters or 64 Hex characters).

• **Pass Phrase:** Enter a pass phrase to access the network. It can be a password like "12345678" or a pass phrase, from 8 to 63 case-sensitive characters.

• **Key Renewal Interval:** The period of renewal time (in seconds) for changing the security key automatically between wireless client and Access Point (AP). Default value is 3600 seconds.

4.3.3 Advanced-Advanced Wireless Settings

Advanced Settings

Advanced Wireless Settings		
▼Advanced Settings		
TX Power	100 (range 1 - 100, default 100)	
Tx Burst	💿 Enable 🔘 Disable	
▼Wi-Fi Multinedia		
WMM Capable	⊙ Enable ○ Disable	
APSD Capable	○ Enable	
▼IGMP Snooping		
IGMP Snooping Service	⊙ Enable ○ Disable	
(Ai	oply Cancel	

• **Tx Power:** Tx Power measurement enhances the wireless transmission signal strength. You can adjust this power level from minimum (0) to maximum (100). Default is 100.

• **Tx Burst:** This feature is used to activate the transmitted time slot to increase transmission throughput. Default is **Enable**.

Wi-Fi Multimedia

• WMM Capable: This feature is used to control the prioritization of traffic according to 4 Access categories: Voice, Video, Best Effort and Background. Default is **Enable**.

• **APSD Capable:** Automatic Power Save Delivery (APSD) is an efficient power management mechanism that can help to consume less power and is very useful for phones that support VoIP. You can select enable or disable of this feature. Default is **Disable**.

IGMP Snooping

• **IGMP Snooping Service**: IGMP refers to Internet Group Management Protocol. IGMP Snooping Service manages the wireless transmission of any incoming IGMP multicast packet groups between the wireless station and the AP. Default is **Enable**. The multicast traffic will be forwarded to the links that belong to milticast groups.

4.3.4 WPS-Wi-Fi Protected Setup

WPS feature is designed to ease security setup and enabled WiFi networks in small offices or home. It helps you to set a network and enable security by entering a PIN or pushing the WPS button.

WPS Config

• WPS Service: Default setting is Disable. If you want to activate this function, please select Enable and click **Apply** to confirm the setting.

Wi-Fi Protected Setup		
▼WPS Config		
WPS Service	◯ Enable ④ Disable	
WPS Mode	○ PIN ④ PBC	
Apply		

• WPS mode: There are two methods to connect the network via WPS between AP and Stations:

PIN code or PBC.

• PIN: Select PIN (Personal Identification Number) mode to connect to the device. When PIN mode is selected, it allows you to enter the PIN code or select Enrollee to use the default PIN code (00000864) which the device uses to authenticate other WPS-enabled wireless devices.

PBC: Select PBC (Push Button Communication) mode to connect to the device.

Note: You can enable WPS PBC mode through WPS configuration interface as above or by pushing the WPS button of your Wall Plug Ethernet Access Point for more than 2 seconds and release it. The WPS will establish the wireless connection automatically after the wireless station also start WPS PBC process.

• Click **Apply** to save the change.

WPS Summary

▼WPS Summary	
WPS Current Status	Idle
WPS Configured	Yes
WPS SSID	Billion-3100SN
WPS Authentication Mode	Open
WPS Encryption Type	None
WPS Default Key Index	1
WPS Key(ASCII):	
AP PIN	00000864

- WPS Current Status: Displays the WPS status.
- WPS Configured: Displays the current WPS configuration status
- WPS SSID: Displays the WPS network name.
- WPS Authentication Mode: Displays the authentication mode for WPS.
- WPS Encryption Type: Displays the encryption type for WPS.
- WPS Default Key Index: Displays the Default Key Index.
- WPS Key(ASCII): Displays the WPS key (ASCII characters).
- AP PIN: Displays the Access Point's PIN number.

4.3.5 AP Client

The AP Client provides the new function of wireless client for AP. It not only enables one AP to connect to another one within its wireless coverage but keeps its original AP function at the same time. The use of AP client is more convenient than that of WDS for AP connections. Just choose the specified AP which you want to connect to in the AP list, two APs can be connected.

_								
	AP Client							
PI If	lease c the spe Refr	lick the "Af cify AP ha esh AP Li	Selection" radio button on ve security, you also input th ist	the right side to connect the s e same security key.	specify AP			
	▼ Wire	less AP Li	ist					
	ID	Channel	SSID	MAC Address	Security	Signal(%)	Wireless Mode	AP Selection
	1	1	wlan-ap	00:04:ed:aa:bb:03	NONE	20	11b/g	\circ
	2	1	TEST1	00:04:ed:aa:bb:04	NONE	15	11b/g	\circ
	3	1	TEST2	00:04:ed:aa:bb:05	NONE	20	11b/g	\circ
	4	1	TEST3	00:04:ed:aa:bb:06	NONE	15	11b/g	0
	5	1	BGS10N-CNC	00:04:ed:cc:ab:04	WPAPSK/AES	100	11b/g/n	\circ
	6	1	wlan-ap	00:04:ed:00:00:01	NONE	24	11b/g	\circ
	7	1	wlan-ap	00:05:fe:11:88:98	NONE	50	11b/g/n	\circ
	8	1	5200GR4	00:04:ed:01:23:45	NONE	34	11b/g	\circ
	9	1	9800VNL_1	00:05:fe:11:88:18	WEP	55	11b/g/n	\circ
	10	1	7F-office	00:13:d3:79:e7:07	WPAPSK/TKIP	100	11b/g	0
	11	3	8F-meeting-2	00:04:ed:b9:a7:ab	WPA1PSKWPA2PSK/TKIP	29	11b/g/n	0

Wireless AP List

In the AP list, you can see the channel, SSID, MAC Address, Security, Signal and Wireless Mode of the searched working APs in the neighborhood. Click the "AP Selection" radio button to select the specified AP you want to connect. If the AP selected have security, you need to provide the same security key to build safety connection. It should be noted that the channel will be changed as the same as the AP selected after pressing Apply button to enable AP Client Service.

AP Client Service

Click Eanble button If you want to activate the AP Client Service. The default setting is disable.
AP Selected: This field displays the AP you select in the "AP Selection" radio button. It shows the Channel, SSID, MAC Address, Security and Wireless Mode. You should key in the encryption key if required. Finally, click "Apply" to confirm the above setting

▼AP Client Service	⊙ Enable O Dis	able		
AP Selected				
Channel	SSID	MAC Address	Security	Wireless Mode
11	Billion	00:0e:2e:f9:d1:b6	WPA2PSK/AES	11b/g
WPA2PSK/AES Key				
	Apply	Cancel		

4.3.6 Station List

The Station List displays the Wireless Network information.

Station List					
▼Wireless Network					
MAC Address	Aid	PSM	MimoPS	MCS	BW

Wireless Network

- MAC Address: The MAC address of the wireless station which connected to the AP.
- Aid: The association ID.
- **PSM:** The power save mode.
- **MimoPS:** The MIMO power save mode. MIMO, Multiple-input and multiple-output, is the use of multiple antennas at both the transmitter and receiver to improve communication performance.
- MCS: The Modulation and Coding Scheme.
- BW: The wireless channel bandwidth.

4.4 Administration

4.4.1 System Management

System Management		
Administrator Settings		
Account	admin	
Password	••••	
Apply	Cancel	

Administrator Settings

- Account: You are allowed to set your own account name. Default is admin.
- **Password:** You are allowed to set your own password. Default is admin.
- Click **Apply** to save the change.

4.4.2 Firmware Upgrade

Upgrading the newly improved version of the firmware allows you to use newly integrated features.

Firmware Upgrade					
Firmware Upgrade may take a few minutes. Please be patient and do not perform any actions. Any interruption during the upgrade process could damage the device.					
▼ Firmware Upgrade					
Destart device with	◯ Factory Default Settings				
Restant device with	 Current Settings 				
New Firmware Image	Browse				
Upgrade					

Firmware Upgrade

• Location: Click Browse to select the new firmware image file you have downloaded to your PC. Once the correct file is selected, click **Apply** to update the firmware of your device.

Note: DO NOT perform any actions while the firmware is being upgraded.

• The system will automatically reboot once the upgrade is complete. You will be returned to the Status page.

4.4.3 Settings Management

These functions allow you to save a backup of the current configuration of your device to a defined location on your PC, to restore a previously saved configuration, and to restart your device with the factory default settings. This is useful if you wish to experiment with different settings, knowing that you have a backup in hand in case any mistakes occur.

Settings Management	
▼Export Settings	
Export Button	Export
▼Import Settings	
Settings file location	Browse
Import	Cancel

Export Settings

• Export Button: Click Export to open or save the backup file. Then, select the location to store the setting file on your PC. You may also change the name of the file if you wish to keep multiple backups.

Note: It is advisable that you should backup your device configuration before making any changes to your device configuration.

Import Settings

• Settings file location: Click Browse to select a file from your PC to restore. You should only restore your device setting that has been generated by the Backup function which is created with the current version of the device firmware. Settings files saved to your PC should not be manually edited in any way.

• Select the settings files you wish to use, and press Import to load the setting into the device.

4.4.4 Restart

These functions allow you to restart the device to factory default setting after you have accidentally changed your settings that may result in undesirable outcome.

Restart Configuration	
▼Restart	
Postort device with	O Factory Default Settings
Restant device with	 Current Settings
Restart	

Restart

• Restart device with **Factory Default Settings** or **Current Settings** to determine how the AP will restart. Click the **Restart** button to restart your device. The system will automatically reload Status page after reboot complete

• You may also reset your device to factory settings by holding the small Reset pinhole button for more than 2 seconds until the WLAN LED blinking and then release it.

Note: Do NOT perform any actions while the device is being restarted.

Chapter 5: Troubleshooting

If your device does not function properly, please refer to the suggested solutions provided in this chapter. If your problems persist or the suggested solutions do not meet your needs, please kindly contact your service provider or Billion for support.

Problems with the device

Problem	Suggested Solutions
I forgot my password.	First, try entering the default user name and password: User Name: admin ; Password: admin (Both the User Name and Password are case sensitive, so make sure that CAPS LOCK is not on when entering this information). If this fails, restore your device to its factory default settings and then enter the default user name and password.
I can not access the LOGIN Web Configuration Interface.	 Ensure you are using the correct IP address. (Default is 192.168.1.253.) Check the hardware connections and ensure all LEDs are behaving as excepted. Ensure your computer's IP address is in the same subnet as the Ethernet Access Point device. Check to see if your browser has Java, JavaScript, or ActiveX enabled. If you are using Internet Explorer, click Refresh to ensure that the Java applet is loaded. Try closing the browser and re-launching it. Reset the device to factory defaults and try to acess the Ethernet Access Point with the default IP address.
How do I reset the Ethernet Access Point?	 There are two ways to reset factory default settings: Hardware Reset To perform a hardware reset, hold down the reset button for more than 2 secondsand release it. Software Reset To initiate a software reset, select Administration > Restart, click Factory Default Setting radio box and press Apply button to initi- ate the restart process. Then wait for about 35 seconds. Note: Restoring to factory default will wipe out all the configurations you have previously set. You are strongly advised to create a backup copy of the settings before resetting the device.
I can not start my Ethernet Access Point device.	Please check your power supply is working. Wall Plug Ethernet Access Point device operates from the power supplied by the home electrical wiring and can not operate without a working power supply.

Appendix: Product Support & Contact

If you come across any problems please contact the dealer from where you purchased your product.

Contact Billion

Worldwide:

http://www.billion.com

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