

Quick Installation Guide

This Installation Guide will assist you to set up the Ultra Series 54Mbps (IEEE 802.11g) Wireless Compact USB Adapter and software.

To establish your wireless network connection, the following steps should be executed.

1. Install the software using the installation CD.
2. Install the Ultra Series 802.11g Wireless Compact USB Adapter.
3. Install the required network protocols to communicate with your network. Most likely, you will need the TCP/IP protocol.

The product is designed to operate in Windows 98se, Windows Me, Windows 2000, and Windows XP. Please note that the installation procedure for each operating system is similar.

To install the Driver for *Windows 98se, ME, 2000 and XP*

1. Insert the Ultra Series 54Mbps Wireless Compact USB CD Rom Utility into your computer. It will automatically run a setup menu to install the driver.
2. If setting up manually, select **Install Software** from the menu and proceed using the Windows Start → Run → type "D:\Utility\Setup.exe" in the box (D:\ will depends on where the CD-ROM drive is located) and click **OK**.
3. The Install Shield Wizard screen will appear. Click Next to continue.
4. If you wish to manually install the drivers, please note the location of each driver specific for your operating system.
Windows XP: D:\Drivers\Windows XP\SIS163U.INF
Windows 2000: D:\Drivers\Windows 2000\SIS163U.INF
Windows Me: D:\Drivers\Windows Me\SIS163U.INF
Windows 98: D:\Drivers\Windows 98\SIS163U.INF
(D:\ will depends on where the CD-ROM drive is located) and click **OK**.
5. **Restart your computer.**
6. After restarting your computer, insert the Ultra Series 54Mbps Wireless Compact USB Adaptor into a free USB socket. You will notice to the right side bottom of the computer screen an antenna icon. If the icon is in green (a wireless network is in range), this means the USB Adapter is ready; if it is red, the USB adapter is not linking to a wireless network.



Wireless Configuration Utility

You can easily configure the functions provided on the CD Rom with the Configuration utility. To launch, double-click the utility icon that appears in the taskbar.

The Utility includes seven tabs: Status, Configuration, Advanced, Profile, Network, Statistics and About

In Ad Hoc mode, the Channel and SSID must be the same among stations so that the computers can communicate within the LAN. All connected computers must also have the same net ID and subnet ID; you can follow the procedure below to check whether you have the same net ID and subnet ID among stations:

1. Right-click on Network Neighborhood on your desktop and then click on "Properties".
2. In Configuration, click on "TCP/IP -> Wireless USB Adapter" and then click on "Properties".
3. Click on "IP Address".
4. Click on "Specify an IP Address" and make sure having the same net ID and subnet ID of all the connected computers.

Status

The Status will show the Configuration Settings of the Wireless USB Adapter.

Configuration

- **Network Mode:** If you want to connect with an Access Point, please set the mode as "Infrastructure" mode. If you have more stations and just want to set them as local network, please set the mode as "Ad-Hoc" mode.
- **SSID:** SSID is the group name that is shared by every member of your wireless network. You will only be able to connect with an Access Point which has the same SSID. Please note that when you are in the Ad-hoc mode, the SSID must be the same among stations so that computers can communicate within the local LAN properly.
- **Channel:** This shows radio channel numbers used for networking. The Channel number must be the same among all stations so that computers can communicate within the local area network. It can be changed only in Ad-Hoc mode. If the Mode was set to Infrastructure mode, this parameter will not be active.

Encryption

You may desire an additional measure of security in your wireless network. This can be achieved by using the Encryption function, WEP-Key, WEP-Passphrase and WPA-PSK.

WEP-Key: WEP (Wired Equivalent Privacy) relies on a secret key that is shared between a mobile station and a base station (Access Point).

WEP-Passphrase: the WEP Passphrase in the dialog box helps you to create a group of WEP key in the Key Setting.

Default Key, Key Length and Key Format:

You can type the key that you want to use from Key#1 to Key #4. The key that you type will encrypt between the station/s that you connected with.

- If you select 64bit in Hex format, you must type 10 values in the following range (0~F, hexadecimal), or 5 alphanumeric values in ASCII format
- If you select 128bit in Hex format, you must type 26 values (0~F, hexadecimal), or 13 alphanumeric values in ASCII format.

Be sure that the Wireless Adapter and the wireless station were set in the same key.

WPA-PSK

WPA-PSK (Wi-Fi Protected Access pre-shared key) is a simpler version that does not support 802.1x and requires a separate RADIUS server for mutual authentication. Enter a Passphrase in the WPA-PSK dialog box. This passphrase must be the same on each computer that is connected to the wireless network.

! Caution: The WEP Key needs to be the same for all wireless network stations.

Advanced

The screen shows the advanced setting of the Wireless LAN Monitor Utility, and it includes Transmit Rate, Power Saving, Transmit Power, Preamble Type, Authentication Mode, Country Domain, Fragmentation Threshold, and RTS / CTS Threshold. We suggest using the default settings.

Profile

The screen shows the existing profile. You can create your profile name, just type the profile name that you want to use; otherwise, it will be set to default. Once you type a new profile name, be sure to save the current setting in the profile name you choose.

Network

The screen shows all the messages of Access Point around the Ultra Series Wireless Compact USB Adapter. The messages of wireless devices include SSID, MAC Address, Channel, Signal, WEP and Network mode.

You can double-click the SSID to choose the wireless device that you want to connect with.

Statistics

The following screen shows the Data Packets in transmitting and receiving status.

About

The screen shows the Driver Name, Regulatory Domain, Driver version, Firmware version and MAC address of Ultra Series 802.11g Wireless Compact USB Adapter Utility/Driver.