SMT-R2000 Quick Installation Guide

This quick installation guide introduces SMT-R2000 and describes how to install SMT-R2000.
This guide is composed of four sections: **[Introduction]** ▸ **[Installation]** ▸ **[Accessing Web Server]** ▸ **[Function Setting]**

Introduction

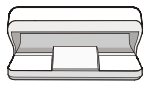
What is SMT-R2000?

SMT-R2000 is a wireless LAN Access Point(AP) used for building a wireless network and is also used as a wireless LAN repeater. When SMT-R2000 is used as a wireless LAN repeater, SMT-R2000 is installed inside the cell area of an AP or repeater and re-transmits data, which is from wireless terminals such as wireless notebook and wireless PDA of adjacent AP cell area, to the AP.

Components

SMT-R2000 Main Frame

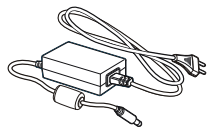
Quick Installation Guide



Support

Screws

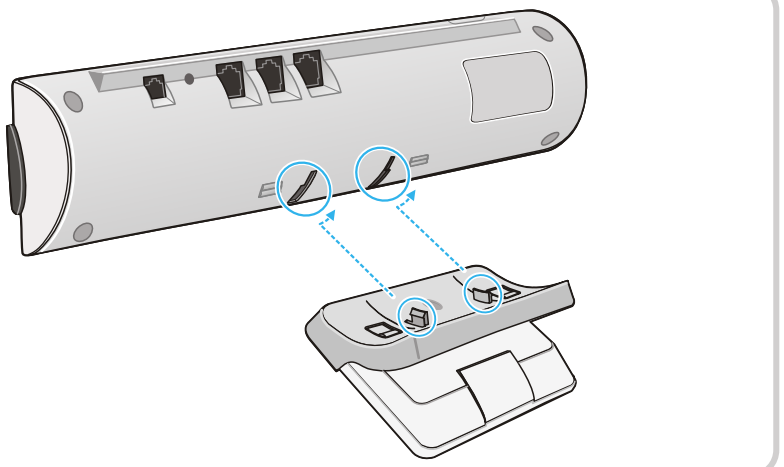
Plastic anchor



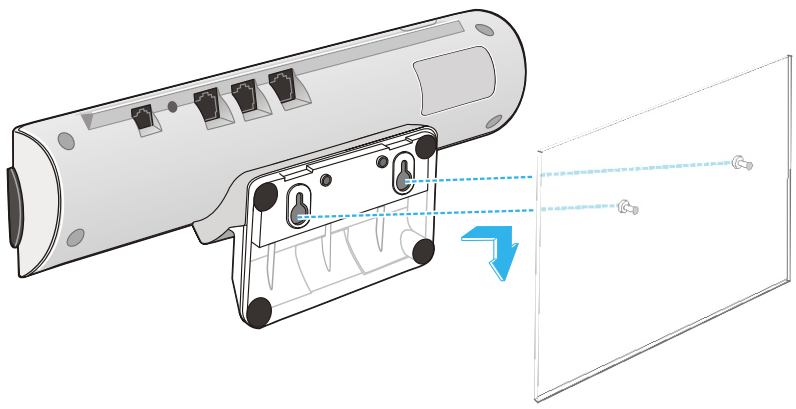
Power adapter

Installation

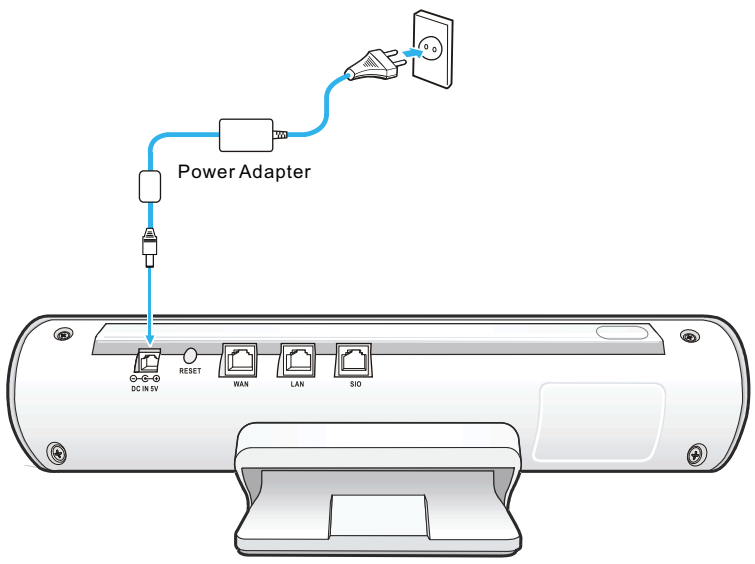
1. Fit the support into the two holes on the bottom of SMT-R2000 as shown in the figure below:



- When installing SMT-R2000 to a wall, fix two screws on the wall using a plastic anchor and fit the two holes on the rear side of the support with the screws, and then move the SMT-R2000 downward to fix:

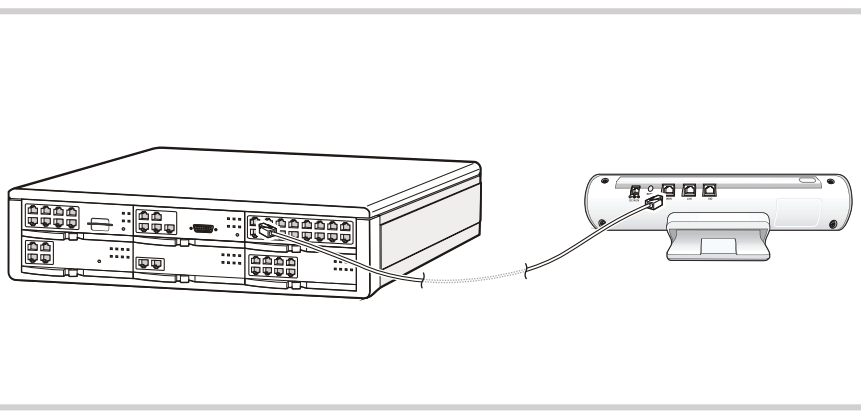


2. Connect the end of the power adapter to the DC IN 5V port of SMT-R2000. Connect the power plug to the outlet.



3. Connect a LAN cable to SMT-R2000.

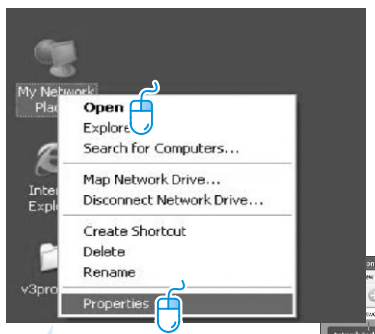
- Connect the WAN port on the rear panel of SMT-R2000 to the LAN port of the commercial L2 switch or the L2 switch port of the OfficeServ system by using a LAN cable.



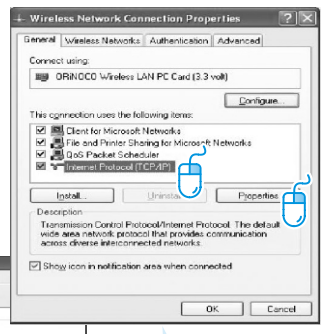
- The LAN port is used for connecting to SMT-R2000 without passing through the OfficeServ 7200 system.
- The SIO port is a port needed when the user accesses to a network using a terminal. This port is not used in normal cases as it is used for some specific purposes such as debugging.

Accessing Web Server

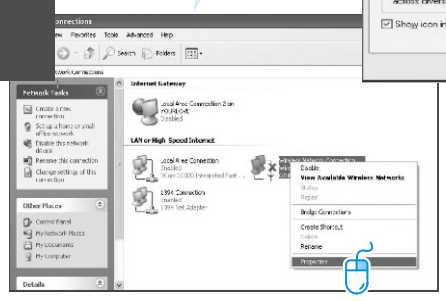
1. Prepare a PC or a laptop that enables wireless Internet connections. Change the IP address of the PC to the same subnet address as SMT-R2000(on Windows XP).



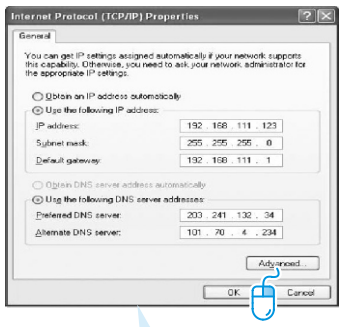
1 Right-click the **[Network]** icon on the desktop
▸ Click **[Properties]**



2 Right-click **[Wireless Network Connection]** ▸ Click **[Properties]**

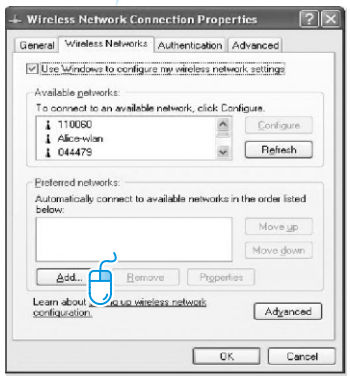


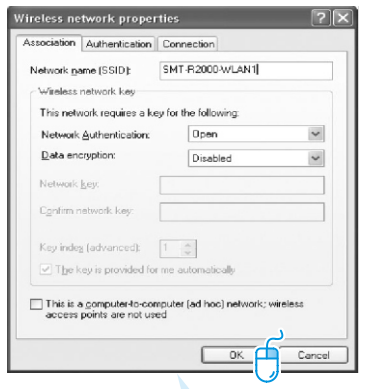
3 Click **[Internet Protocol(TCP/IP)]** ▸ Click the **[Properties]** button



4 Change the IP address of the PC to the same subnet address as SMT-R2000(If you install SMT-R2000 for the first time, set the IP address of the PC to '192.168.111.x', the subnet mask to '255.255.255.0', and gateway to '192.168.111.1'.)
▸ Click the **[OK]** button

5 Select the **[Wireless Networks]** tab from Wireless Network Connection Properties
▸ Click the **[Add]** button.





6 Enter 'SMT-R2000-WLAN1' for **[Network Name]**, and select 'Open' for **[Network Authentication]**, 'Disabled' for **[Data encryption]**
▸ Click the **[OK]** button

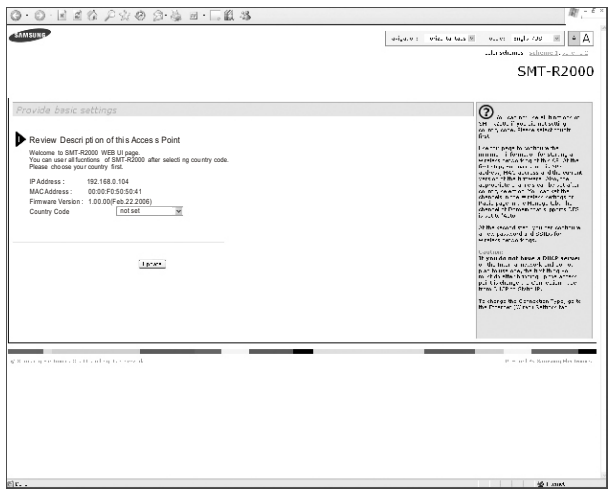
NOTE

When Connecting the Wireless Network
The connection of the wireless network may vary depending on a wireless LAN card of a PC. For further information, refer to the user guide of a wireless LAN card.

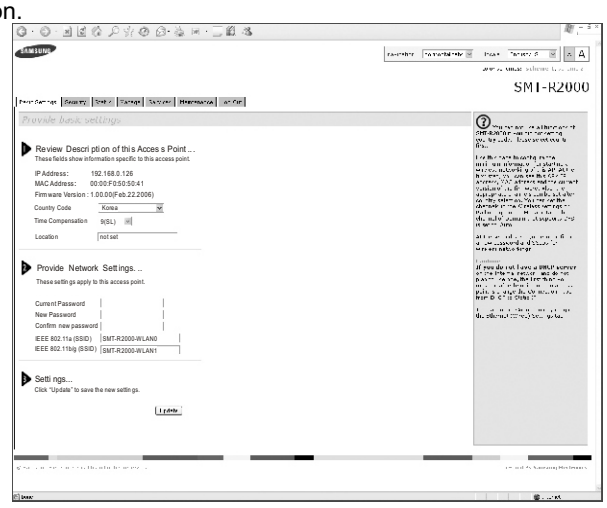
2. Run Explorer in the PC, and enter the IP address of SMT-R2000.
The initial IP address is '192.168.111.10'.

3. Once the login window appears in SMT-R2000, enter the user ID and password.
- User Name : admin
- Password : samsung

4. You can see the page for setting **[Country Code]** if you connect web page of SMT-R2000 for the first time. Select your country from the **[Country Code]**.



5. The following screen is displayed;
- Clicking 'SMT-R2000' displays the basic information.
- Clicking 'English' displays the English menus.
- In the right side is Help, and clicking 'more' displays the detailed Help.
- For the description on each menu, refer to 'Function setting'.



Function Setting

SMT-R2000 has the following function setup menus.

Items	Menus	Operation Descriptions
Basic Settings	–	Sets the basic functions of SMT-R2000.
Security	–	Sets the security of SMT-R2000.
Status	Interfaces	Displays the interface status between 802.11 and 802.11 b/g.
	Events	Displays the events that have occurred in SMT-R2000.
	Transmit /Receive	Displays the numbers and data amount of packets that have been transmitted/received.
	Client Associations	Displays the information on the clients that have accessed to SMT-R2000.
	Sessions	Displays the statuses of other APs and the clients that have accessed currently to SMT-R2000.
	Neighboring Aps	Monitors the peripheral AP.
Manage (Management)	Ethernet Settings	Sets the wireless interface of SMT-R2000.
	Wireless Settings	Makes simple setup of the wireless interface in SMT-R2000 available.
	Radio	Makes detailed setup of the wireless interface in SMT-R2000 available.
	VWN	Sets the Virtual Wireless Network(VWN) of SMT-R2000.
	WDS	Sets the Wireless Distribution System(WDS) function with other APs.
	MAC Filtering	Makes the access management of the clients and APs using MAC addresses.
	Load Balancing	Controls the usage of SMT-R2000 resources.
	Port Control	Limits the Port's usage.
	Port Forwarding	NAT Forwarding function
Services	QoS	Sets the functions related to QoS.
	SNMP	Sets the services related to SNMP.
	NTP	Makes the setup related to Network Time Protocol(NTP) available.
Maintenance	Setup Management	Updates the setup value of SMT-R2000.
	Upgrade	Makes the firmware upgrade functions available.

NOTE

Menu according to software version
Some menu may be different accroding to software version.

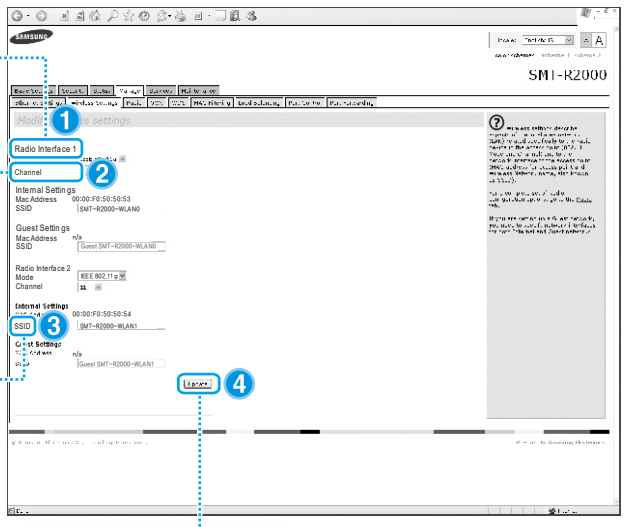
1 Wireless LAN Setup

Wireless LAN Setup can be made in **[Manage]** ▸ **[Wireless Settings]**.

Set the transmission mode of Radio interface as 'a' or 'b/g' according to the terminal types.

Select other channels in case that two or more APs are to be used in the neighboring area. Selecting 'Auto' retrieves the neighboring channels, and makes the automatic setup into the least interfered channel.

Enter the proper figures with which the alphabets and the figures are combined excluding special characters and blanks. The output can be made to 32 digits, and can be used as the ID for differentiating AP.



Store setup.

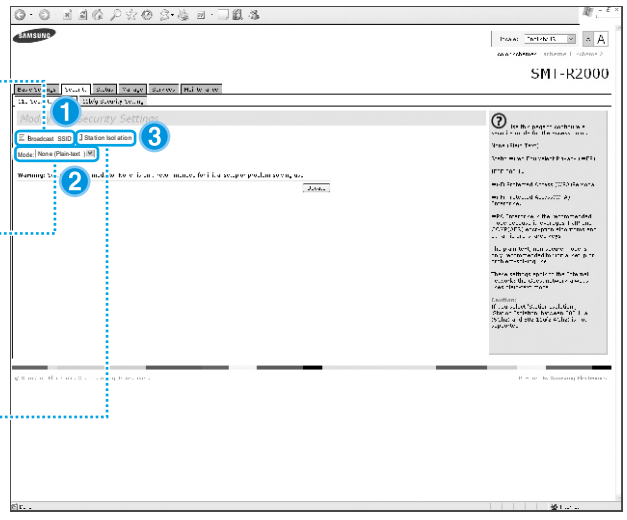
2 Security Setup

Security setup can be performed at the **[Security]** menu, and the menus are divided into '11a Security setting' and '11 b/g Security setting'.

This item sets whether to broadcast the SSID of SMT-R2000.

Select one among the five security modes to make the setup. Selecting each security mode displays additionally the detailed items that are to be set according to them.

This item blocks out the communication between the terminals connected to one another by the same radio mode.



Security Mode Selection

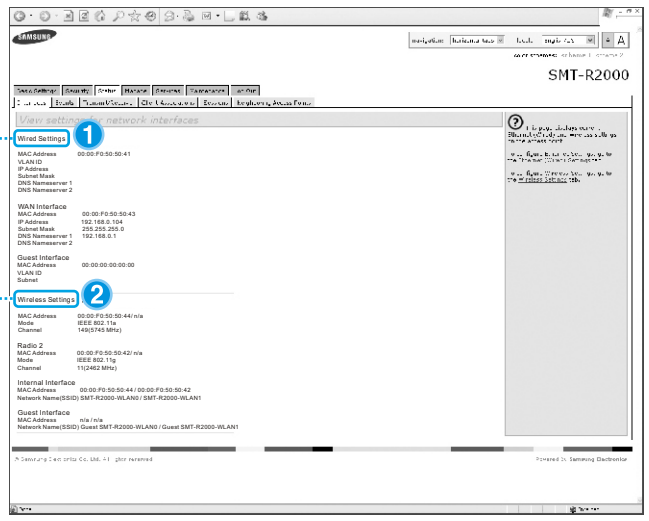
Items	Menus
None(Plain-text)	The mode not enciphering the data when the client makes communication with AP.
Static WEP	All clients and APs should have the keys of 64 bits or 128 bits for enciphering the data when the static WEP security mode is set. Set the key index, length, type and key values when selecting the 'Static WEP' and also select the authentication mode.
IEEE 802.1x	IEEE802.1x is the standard that defines the authentication based on port and the key management method. RADIUS server setup is additionally necessary when the 'IEEE802.1x' is selected.
WPA Personal	'WPA Personal' performs the authentication and encryption using the Pre-Shared Key(PSK), a kind of the shared key. Select a WPA version, enciphering method, and enter PSK when selecting 'WPA Personal'.
WPA Enterprise	'WPA Enterprise' is WPA method that uses Remote Authentication Dial-in User Service(RADIUS) for user authentication. Select WPA version, enciphering method when selecting 'WPA Enterprise', and set RADIUS authentication server for user authentication.

3 Status View

A user can confirm the wireless setup of the current SMT-R2000 at **[Status]** ▸ **[Interfaces]**.

This item displays the setup of the current wire line. Clicking the **[Edit]** button above the item can move right to the wire line setup.

This item displays the current wireless setup. Clicking **[Edit]** button above the item can move right to the wireless setup screen.



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