Wireless 11n Smart Repeater AP (1T1R)

Table of Contents

1. Introduction	3
1.1 Package contents	3
1.2 Product Features	
1.3 Front Panel Description	4
1.4 Rear Panel Description	5
2. Installation	6
2.1 Hardware Installation	6
2.2 Software Installation	6
3. Management and configuration on the Wireless AP Router	9
3.1 Smart Setup Wizard	9
3.1.1 Scan for Network	
3.1.2 Setup Security (if necessary)	11
3.1.3 Repeater Settings	
3.2 Wireless Settings	
3.2.1 Home Network Settings	
3.2.2 Extended Network Settings	14
3.2.3 Security	15
3.2.4 Wi-Fi Protected Setup (WPS)	16
3.2.5 Advanced Setting	17
3.3 Smart Features	17
3.3.1 Access Schedule	17
3.3.2 User Access Control	
3.3.3 Wireless Coverage Controls	19
3.4 IP Settings	
3.4.1 Extended Network IP Settings (LAN)	
3.5 Management	
3.5.1 Smart Repeater Status	
3.5.2 Network Statistics	
3.5.3 System Clock	
3.5.4 System Logs	
3.5.5 Upgrade Firmware	
3.6.6 Save/Reload Settings	
3.5.7 Password	

1. Introduction

The Wireless AP is IEEE 802.11b/g/n solution; setting SOHO and enterprise standard for high performance, secure, manageable and reliable wireless networks.

1.1 Package contents

The package of the wireless smart repeater AP includes the following items

- ✓ Smart Repeater AP
- ✓ DC 12V Power Adapter
- ✓ CD : User Manual
- ✓ QIG
- ✓ External 5dBi Omni Antenna x1
- ✓ RJ-45 Cable
- ✓ Stand

1.2 Product Features

- ✓ Support advanced 1x1 Technology with up to 150Mbps for wireless transmission
- ✓ Complies with 2.4GHz IEEE802.11n and IEEE802.11b/g standards
- ✓ Support 20MHz and 40MHz bandwidth
- ✓ Easy quick setup wizard with web-based utility
- ✓ One 5dBi antennas
- ✓ Increased Wireless Coverage
- ✓ Add additional Ethernet connections
- ✓ Smart Wizard for configuration and security
- ✓ The repeater works with 802.11 b/g/n Wi-Fi networks

1.3 Front Panel Description



LED Indicator	State	Description	
DOWED	on	The Wireless AP Router is power on.	
POWER	off	The Wireless AP Router is power off	
W/LAN	Flashing	Data is transmitting or receiving on the antenna.	
WLAN	off	No data is transmitting or receiving on the antenna.	
	Flashing	Data is transmitting or receiving on the LAN interface.	
LAN 1~5	on	Port linked.	
	off	No link.	
Flashing		1sec flash light /1sec light dark / attempt to communicate	
		with wireless client	
WF2	On	When user press WPS button	
	off	Default No link	

1.4 Rear Panel Description



Interfaces	Description
SMA	The Wireless LAN Antenna.
Reset	Push continually the reset button 5 ~ 10 seconds to reset the configuration parameters to factory defaults.
WPS	Push the WPS button implementation to reduce the network configuration steps, and also easy to implement network security.
LAN	The RJ-45 sockets allow LAN connection through Category 5 cables. Support auto-sensing on 10/100M speed and half/ full duplex; comply with IEEE 802.3/ 802.3u respectively.
DC PWR	The power jack allows an external DC power supply connection.
	The external DC adaptor provide adaptive power requirement to the WLAN Broadband Router.

2. Installation

2.1 Hardware Installation

Hardware Installation

Step 1: Place the Wireless Access Point to the optimum transmission location. The best transmission location for your Wireless Access Point is usually at the geographic center of your wireless network, with line of sign to all of your mobile stations.

Step 2: Connect the Wireless Access Point to your wired network. Connect the Ethernet LAN interface of Wireless Access Point by category 5 Ethernet cable to your switch/ hub/ xDSL modem or cable modem. A straight-through Ethernet cable with appropriate cable length is needed.

Step 3: Supply DC power to the Wireless Access Point. Use only the AC/DC power adapter supplied with the Wireless Access Point; it may occur to damage by using a different type of power adapter. The hardware installation is finished.

2.2 Software Installation

There is no software drivers, patches or utilities installation needed, but only the configuration setting.. Notice: It will take about 1 minute to complete the boot up sequence after powered on the Wireless Access Point; Power LED will be active, and after that the WLAN Activity LED will be flashing to show the WLAN interface is enabled and working now.

📥 Local Area Connection 2 Status	? 🔀
General Support	
Connection	
Status:	Connected
Duration:	00:08:03
Speed:	100.0 Mbps
Activity Sent —	Received
Bytes: 24,323	29,754
Properties Disable	
	Close

2.3 Browser to Access the Setup Wizard

1. into local area connection status

🕹 Local Area Connection 2 Properties 🛛 🔹 🔀	4	🕹 Local Area Cor	nnection 2 Status
General Advanced	pr	General Support	
Connect using:	:5	Connection	
🕮 Atheros AR8132 PCI-E Fast Ethernet Configure	e	Status:	Connected
	П	Duration:	00:08:57
This connection uses the following items:	рг Ус	Speed:	100.0 Mbps
Client for Microsoft Networks	n		
File and Printer Sharing for Microsoft Networks	t		
Gos Packer Scheduler	F١		
	d	Activity	
Install Uninstall Properties	is s		Sent — 👘 — Received
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	εt	Bytes:	24,323 29,754
Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity	ne k	Properties	Disable
OK Cancel	er ce	_	Close

2. Setting Internet Protocol (TPC/IP)

4	Local Area Connection 2 Properties 🔹 💽 🚣 Loca	al Area Connection 2 Status	? 🗙
G	eneral Advanced r Genera	ral Support	
		Pection	
	Internet Protocol (TCP/IP) Properties	us: Co	nnected
	General Alternate Configuration	ation: (00:09:14
	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	ed: 100).0 Mbps
	 Obtain an IP address automatically 		
	Use the following IP address:	by	
	IP address:	Sent — 😥 — R	eceived
	Subnet mask:	La La	
	Default gateway:	s: 24,323	29,754
	Obtain DNS server address automatically		
	O Use the following DNS server addresses:		
	Preferred DNS server:	Disable	
	Alternate DNS server:	(Close
	Advanced	3	
	OK Cancel		

- 3. Choosing IP and DNS to automatically address.
- 4. Open your web browser and enter <u>setup.loopcomm.com</u> on the URL field to log in.



Note. Default IP address: 192.168.1.250

Default Web domain name: http://setup.loopcomm.com

3. Management and configuration on the Wireless AP Router

3.1 Smart Setup Wizard



Welcome to the Smart Setup Wizard

The loopcomm Wireless Smart Repeater extends your wireless coverage by repeating the signal from your home or office wireless network. The Smart Setup Wizard will guide you through the simple setup of your Smart Repeater. Click Next to continue!



This menu has been designed to work with: Microsoft Internet Explorer 8 (or above), Google Chrome, and Apple Safari web browsers. If you are using another web browser, then it is recommended that you switch to one of the approved web browsers to avoid issues with the web menu features.



Welcome to the smart setup wizard. When the web menu appears, click next to continue to the next page.

3.1.1 Scan for Network



Internet Router Smart Repeater

Scan for a Wireless Network to Repeat

It is recommended that you connect to a wireless network with greater than 70% signal strength. Connecting to a network with poor signal strength may cause the connection to be unstable.

SCAN



Select your network and click Next.

NEXT

- 1. Click SCAN to begin searching for available wireless networks to repeat.
- 2. Select your network and click "Next" to continue.
- 3. If you fail to find any wireless networks, the Smart Repeater may be placed too far from the wireless network that you are trying to repeat.
- 4. Move your Smart Repeater closer to the wireless network that you are trying to repeat and click SCAN again.
- 5. The Scan results page will display information regarding the name of the network (SSID), the channel which the wireless network is operating on and the type of network that it is.
- 6. AP stands for Access Point and is the standard type of wireless network.
- 7. The results page will also display whether or not your network has security and what the signal strength is coming from each specific network detected.

3.1.2 Setup Security (if necessary)

Setup Security (if necessary)

If the Wi-Fi network (Home Network) that you are trying to connect to has security enabled, then enter the security key below. If your Home Network does not have security, leave this field blank and click Next.



- 1. If the wireless network you are trying to repeat has wireless security enabled, you will be prompted to enter a security key.
- 2. If you did not select a secure network, continue to the next step.
- 3. Enter the security key in the space provided.
- 4. You do not need to select what type of security it is, just simply type in the key and click next.
- 5. The Smart Setup Wizard will automatically take care of the rest. If the key you entered is incorrect it will prompt you to enter the key again.
- 6. If you do not know the key to the network you are trying to repeat, then click Back and select another network.

3.1.3 Repeater Settings



Extended Network ID

- 1. The default SSID of the Smart Repeater is "Loopcomm_Repeater"
- This SSID for the Extended Network may be changed by adjusting the name in the field for the Extended Wireless Network ID.
- This ID will be used by wireless users connecting to the Smart Repeater to identify the Smart Repeater's Extended Network.
- 4. It is recommended to use the default settings

Extended Network Security Key

- 1. By default, the Extended Network has security enabled.
- The WPA security key is "loopcommwifi" Users trying to connect to the Smart Repeater wirelessly will be prompted to enter this key.
- 3. It is recommended that you use the default settings for the wireless security key.
- 4. To change the security key, simply retype your new key in the field and click next.
- 5. Write your security key down somewhere safe for future reference.
- No security key is necessary for computers connecting to the Smart Repeater using a wired connection to the LAN ports.
- 7. After clicking Next, the Smart Repeater will reboot and apply your settings. Be patient and do not make any changes or adjustments to the Smart Repeater at this time.

3.2 Wireless Settings

3.2.1 Home Network Settings

Home Network Settings

Manually configure the settings for your Home Network connection

Home / Office Network
(((())) ((())) (()) Internet Router Smart Repeater
Home Wireless Connection
Home Network SSID: CHTS
Channel Number: 4 • Must be same as your Home Network router
Channel Width: 20MHz 🔻
Control Sideband: Upper 🔻

If you are manually setting your Home Network connection, you will need to enter the security setting in the Security page for your Home Network. After clicking Apply on this page, click Reboot Later and go to the Security page to set your security settings. Click Reboot Now after all settings are applied. The Smart Repeater cannot connect to your Home Network until all settings have been set and applied.



- The Home Network Settings page allows you to adjust settings for your Home Network connection. These settings are for adjusting the Smart Repeater after you have already gone through the Smart Setup Wizard and wish to adjust your current configurations.
- 2. Home Network SSID: Manually enter the Identification name of the Home Network you wish to connect to Channel Number:
- 3. Enter the channel number of the Home Network.
- 4. If the channel number does not match, a connection will not be established.
- 5. Channel Width: Wi-Fi operates in two separate channel widths, 20Hz and 40Hz. 20Hz allows operation on channels 1-11, while 40Hz is 5-11. 40Hz allows for faster speeds. Select the channel width you wish to use for your network. This setting must match that of your Home Network for a successful connection.

3.2.2 Extended Network Settings

Home / Office Network	Extended Network
· (((1)))	((())) (()
Internet Router	Smart Repeater
Extended Wireless Netw Disable Wireless LAN Interface	ork Settings
Band	2.4 GHz (B+G+N) 🔻
Band. Broadcast SSID:	2.4 GHz (B+G+N) ▼ © Enable © Disable
Band Broadcast SSID: Data Rate	: 2.4 GHz (B+G+N) ▼ : ● Enable ● Disable : Auto ▼
Band Broadcast SSID Data Rate SSID of Extended Network	: 2.4 GHz (B+G+N) ▼ : ● Enable ● Disable : Auto ▼ : Loopcomm_Repeater : Guest Network
Band Broadcast SSID Data Rate SSID of Extended Network Channel Number	 2.4 GHz (B+G+N) ▼ Enable ● Disable Auto ▼ Loopcomm_Repeater Guest Network (same as Home Network)
Band Broadcast SSID Data Rate SSID of Extended Network Channel Number WMM	2.4 GHz (B+G+N) ▼ Enable ● Disable Auto ▼ Loopcomm_Repeater Guest Network (same as Home Network) Enabled ▼

- 1. The Extended Network Settings page allows you to adjust settings for your Extended Network.
- 2. Band: Allows you to setup access under a specific combination of Wi-Fi speed standards.
- 3. Broadcast SSID: Disabling the broadcasting of your SSID will make it so outside users cannot see your Network when they scan for wireless networks.
- 4. Users must manual enter the SSID to connect.
- 5. SSID of Extended Network: This is the name of your Extended Network.

3.2.3 Security

Security

Configure the security settings for your wireless networks.

Home / Office Network
Select Wireless Network: Extended: Loopcomm_Repeater APPLY RESET
Encryption: WPA
Authentication Mode: [●] Enterprise (RADIUS) ● Personal (Pre-Shared Key)
WPA Cipher Suite: TKIP AES
Pre- Passphrase ▼ Shared Key Format:
Pre-Shared Key: ••••••

 Wireless security allows you to change the type of wireless security settings for your Extended Network or your Home Network.
 Note: If you adjust the security in your Home Network and it is incorrect, you will no longer have a successful

connection to your Home Network.

- 2. Using the drop down menu, you can select which network you wish to configure and adjust the security settings below.
- 3. If you are using the Multiple AP/SSID feature, you will be able to adjust the security settings for your additional SSID here as well.

3.2.4 Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup (WPS)

WPS provides hassle free setup for wireless users connecting to the Smart Repeater. Use one of the following WPS processes to configure WPS.



Disable Wi-Fi Protected Setup (WPS)

Enable Wi-Fi Protected Setup

Option A: If your wireless user has a Wi-Fi Protected Setup button, click or press the WPS PBC (Push Button Configuration) button here: Start PBC	k
Option B: If your wireless user asks for the Smart Repeater's PIN number, use this number on the user's device: 85852235	
Option C: If your wireless user has a Wi-Fi Protected Setup PIN number, enter that number here:	
and then click Start PIN	

APPLY

RESET

- 1. WPS is a Wi-Fi feature created to make Wi-Fi setup simpler and easier.
- 2. Some wireless routers and adapters support this feature with varying names (i.e. one touch setup or WPS).
- 3. You may enable WPS setup here by selecting the type of WPS setup you wish to use.
- 4. The Smart Repeater supports all types of WPS setup.
- 5. Push button: You may push the WPS button on the web menu or use the physical button on the back of the Smart Repeater.

3.2.5 Advanced Setting

Advanced Settings

Advanced wireless settings are for technically advanced users. It is recommended that these settings not be changed unless it is understood what the effects will be on your local wireless network.



APPLY	RESET
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APPLY RESET

- 1. It is recommended that only experts in Wi-Fi configuration adjust the advanced wireless settings for the Smart Repeater.
- 2. These settings allow you to control the details of your wireless network configuration.

3.3 Smart Features

3.3.1 Access Schedule

Access Schedule

Define a schedule for when Wi-Fi is enabled or disabled on the Smart Repeater. Please be sure that your time zone settings have been configured before using this feature.

Note: When Wi-Fi is disabled, wired users will no longer have access to the Internet.

Enable Acc	cess Schedule
Wi-Fi Enabled	I Days:
Everday	🖷 Sun 🔍 Mon 🔍 Tue 🔍 Wed 🔍 Thu 🔍 Fri 🔍 Sat
Hours of Eacl	n Day:
24 Hours	● From 00 ▼ : 00 ▼ To 00 ▼ : 00 ▼

1. You can set a schedule for when your Wi-Fi is enabled or disabled (both Home Network and the Extended Network) through the Access Schedule feature.

- 2. To do so:
 - a. Enable Access Schedule
 - b. Select which days you wish for your Wi-Fi to be available
 - c. Select the time frame during that day that you wish for Wi-Fi to be available
 - d. Apply Changes
- 3. Enabling Access Schedule will also disable internet access for wired connections.

Note: Make sure you have already configured your Time Zone Settings in order for your schedule to work correctly. Time Zone Settings can be adjusted from the web menu under Management > Time Zone Settings.

3.3.2 User Access Control

User Access Control

Allow or deny wireless access to specific users by entering the MAC address of the device below. The MAC address of a networking device is a 12 digit hex number normally found on a label on the bottom of the device (e.g. 1A2B3C4F5A6D).

Wireless Access Control Mode:	Disable •	·		
MAC Address:				
Comment:				
			APPLY	RESET
Current Access Control Table				
MAC Address	Comment		Select	
Delete Selected	Delete All	Reset		

- 1. User Access allows you to deny access or allow access to specific users connecting wirelessly to the Extended Network.
- 2. Each networking device has a unique address called a MAC address (a12 digit hex number).
- 3. By inputting the MAC address into the field, you can define whether that device is allowed into your network or not allowed.

RESET

APPLY

3.3.3 Wireless Coverage Controls

Wireless Coverage Controls

Adjust the output power and range of your Extended Wireless Network. For a smaller coverage area, choose a lower output power percentage. For a larger coverage area, select a higher output power percentage.



- 1. Adjust the output power of the Smart Repeater to control the coverage distance of your Extended Wireless Network.
- 2. For a smaller coverage area you can select a lower output power.
- 3. For the maximum wireless coverage select the 100% selection.

Note that if you select a lower output power, your connection to your Home Network will also decrease in range. So be careful and test your signal strength after each adjustment.

3.4 IP Settings 3.4.1 Extended Network IP Settings (LAN)

Repeater as well as the DHCP server for the Extended
Extended Network
((())) (()
Smart Repeater
192.168.1.250
255.255.255.0
0.0.0.0
Auto 🔻
192.168.1.100 - 192.168.1.200 Show Client
Set Static DHCP
Enabled O Disabled Note: Disabling Auto-DNS will require that you access the web menu using the IP address of this device. It is recommended that you note your IP address before changing this mode. If you are no longer able to access the web menu, you will need to perform a hardware reset.
loopcomm
Disabled v
0000000000

Extended Network IP Settings (LAN)

IP Address: The IP address of the Smart Repeater Subnet Mask: the subnet of the Smart Repeater

Default Gateway: The access points to another network, normally the Smart Repeater or your router.

DHCP: The Smart Repeater includes a complex AUTO DHCP feature to help manage the IP addresses within your extended network and with your Home Network.

APPLY RESET

When connected to a Home Network the Repeater will obtain an IP address from your Home Network's router and act as a DHCP Client.

However when there is no connection available, the Repeater will act as a DHCP Server.

You may also manually control the IP settings of the Smart Repeater by choosing, Client, Server or Disabled from the DHCP drop down menu. This is only advanced users.

DHCP Client Range: The range of IP addresses the Smart Repeater's DHCP server will assign to users and devices connecting to the Smart Repeater.

Static DHCP: You may set a static IP address within your DHCP network. The Smart Repeater will track the device via its MAC address and assign it a pre-defined IP address each time the device logs into the network. obtain IP settings from the Home router or to manually enter your IP settings.

3.5 Management

3.5.1 Smart Repeater Status

Smart Repeater Status

System Information

Uptime: 0day:0h:4m:43s

Firmware Version: 1.2e.06

Build Time: Fri Jun 22 13:47:35 CST 2012

Current Date / Time: 6/22/2012 13:52:16

Home Network Wireless Settings

Band: 2.4 GHz (B+G+N) SSID: CHTS Channel Number: 4 Encryption: Disabled BSSID: 00:e0:4c:81:96:b1 Connection State: Scanning Signal Strength: 0%

Extended Network Wireless Settings

SSID: Loopcomm_Repeater Encryption: WPA BSSID: 00:00:00:00:00 Associated Clients: 0

Smart Repeater IP Settings

IP Protocol: Fixed IP IP Address: 192.168.1.250 Subnet Mask: 255.255.255.0 Default Gateway: 0.0.0.0 DHCP Server: Auto MAC Address: 00:e0:4c:81:96:b1

- 1. The Management features on the Smart Repeater allow you to view the status of your Home Network and Extended Network.
- The Repeater Status page provides full information regarding each connection (Home and Extended), including the IP address, current connection SSID and current state. This page is often used to check the health of your Home or Extended Network connection.

3.5.2 Network Statistics

Net	work Statistics		
	Connection to Home Network:	Sent Packets:	793
		Received Packets:	12575
	Extended Wireless Network:	Sent Packets: Received Packets:	6290 0
	Extended Wired Network:	Sent Packets: Received Packets:	4442 3996

REFRESH

The Network Statistics page provides detailed traffic data for each connection type

3.5.3 System Clock

System Clock

Maintain the system clock settings by syncing the system time with the time on your computer. The Smart Repeater's clock is used to make sure your Access Schedules and logs function correctly and on time.

Current Time:	6 Month	22 Day	2012 Year	
	13 Hour	53 Minute	43 Sec	
	Sync with your c	omputer: Sync		
		A	PPLY RESET	REFRESH

Maintain the internal clock for the Smart Repeater by syncing with your computer's time. Your system clock settings need to be accurate in order for logs and wireless access schedules to work correctly.

REFRESH CLEAR

3.5.4 System Logs

Cystem Logs			
View network and sys	stem activity for your Smart Repeater.		
Enable Log			
Current Time:	System (ALL) Wireless Enable Remote Log Log Server IP Addre	ess:	
		APPLY	
			~
			~

3.5.5 Upgrade Firmware

Upgrade Firmware

The Wireless Smart Repeater uses software (firmware) to operate. In the event that a new firmware file is available you may update it here. During the upgrade process DO NOT power off the device to avoid damage to the Wireless Smart Repeater.

Select File:			Browse
	Upload	Reset	

- 1. The Wireless Smart Repeater uses internet software (firmware) to operate. In the event that a new firmware file is available you may update it here.
- 2. During the upgrade process DO NOT power off the device to avoid damage to the Wireless Smart Repeater. To check for new firmware click the Check button. If a new firmware is available you will be given the option to install.
- 3. To manually upgrade your firmware:

a. Download the file from the www.loopcomm.com/support website and remember the location where you saved it.

b. Click Browse and locate the file

c. Click Upload to begin upgrading.

Note: Firmware files normally have a .bin file extension.

3.6.6 Save/Reload Settings

Save/Reload Settings

Save your current Wireless Smart Repeater configurations to a file or reload previously saved configurations. If needed, you may also reset your Wireless Smart Repeater to factory default settings.

Save Settings to File:	Save		
Load Settings from File:		Browse	Upload
Reset Settings to Default:	Reset		

- 1. Saving your current settings allows you to back-up your current settings which may be reloaded at a later time.
- 2. This feature may be useful for testing new features and settings without having to worry about returning to a stable platform.
- 3. To save current settings:
 - a. Click Save
 - b. Select a file name and location
- 4. To load previously saved settings:
 - a. Click Browse
 - b. Locate the previously saved settings file
 - c. Click Upload to restore the settings to the saved file.

You may also reset the Smart Repeater's settings to factory settings by pressing Reset. By resetting the Smart Repeater you will lose all previous configurations and will need to run the Smart Setup Wizard again to reconnect to a Home Network.

3.5.7 Password

Password

Prevent unauthorized access to your Wireless Smart Repeater's web-based configuration menu by providing a user name and password. If no protection is necessary, leave these fields blank and you will not be prompted for a login and password when accessing this web menu.

User Name:]	
New Password:		
Confirmed Password:		
	APPLY	RESET

By default, the Smart Repeater does not require a password to login to the web menu.

If you wish to enable a password to protect unauthorized access to the web menu and Smart

Setup Wizard, you may enter one here.

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 or more 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.

FCC Caution:

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.

RF Radiation Exposure and Hazard Statement:

To ensure compliance with FCC RF exposure requirements, this device must be installed in a location such that the antenna of the device will be greater than 20 cm (8 in.) away from all persons. Using higher gain antennas and types of antennas not covered under the FCC certification of this product is not allowed. Installers of the radio and end users of the product must adhere to the installation instructions provided in this manual. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Non-modification Statement:

Use only the integral antenna supplied by the manufacturer when operating this device. Unauthorized antennas, modifications, or attachments could damage the TI Navigator access point and violate FCC regulations. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Deployment Statement:

This product is certified for indoor deployment only. Do not install or use this product outdoors.