

TEW-750DAP User's Guide

Table of Contents

C		st.	~	to
	UI	10	eı	115

Product Overview
Package Contents2
Features2
Product Hardware Features3
Installation 4
Wireless Performance Considerations4
Hardware Installation5
Configuration5
Log in the Web-based Management5
Main > Wizard6
Main > LAN7
LAN Connection Type – Static IP8
Main > Password9
Main > Time10
Main > IPv611
IPv6 Connection Type – Static IPv611
IPv6 Connection Type – Auto-configuration (SLAAC/DHCPv6)12
IPv6 Connection Type – Link-local Only12
Wireless > Basic12
Wireless Network Settings – 2.4GHz Band13
Wireless Mode – WDS14
Wireless Mode – WDS+AP14
Wireless Security Mode14
Wireless Security Mode – None14
Wireless Security Mode – WEP15
Wireless Security Mode – WPA-Personal15
Wireless Security Mode – WPA-Enterprise16

Wireless Network Settings – 5GHz Band	17
Wireless Mode – WDS	17
Wireless Mode – WDS+AP	17
Wireless Security Mode – None	18
Wireless Security Mode – WEP	18
Wireless Security Mode – WPA-Personal	18
Wireless > Advanced	19
Wireless > Wi-Fi Protected Setup	19
Status > Device Information	22
Status > Log	23
Status > Statistic	23
Status > Wireless	24
Status > IPv6	24
Access > MAC Filters	25
Access > Guest Zone	26
Access > Advanced Network	26
Tools > Restart	27
Tools > Firmware	27
Tools > Ping Test	28
Tools > Email Settings	28
Tools > Syslog	29
Tools > Schedules	29
Networking Basics	30
Wireless Basics	31
Wireless Security	32
Technical Specifications	

Product Overview



Package Contents

The package includes:

- TEW-750DAP Wireless Access Point (AP)
- CD-ROM (Utility & User's Guide)
- Multi-language Quick Installation Guide
- Network cable (1.5m / 5ft)
- Power adapter (DC12V, 1A)

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor that the item was purchased.

Features

TRENDnet TEW-750DAP Dual Band Wireless AP produces the ultimate wireless experience with up to 300Mbps for the 802.11n wireless connection.

- 4 x 10/100Mbps Auto-MDIX LAN ports
- 1 x Wi-Fi Protected Setup (WPS) button
- On / Off power switch
- Compliant with IEEE 802.11a/b/g
- Compliant with IEEE 802.11n 2.0
- Compliant with IEEE 802.3 and 802.3u
- One touch wireless connection using the WPS button
- Easy setup via Web browser
- User-friendly Setup Wizard

Product Hardware Features

Rear Panel View



- **Reset Button** Press and hold this button for 10 seconds to reset your AP to default settings.
- WPS Button Push and hold this button for 5 seconds to activate WPS.
- LAN Ports Connect Ethernet cables (also called network cables) from your AP LAN ports to your wired network devices.
- Power Port Connect the included power adapter from your AP power port and to an available power outlet.
 Note: Use only the adapter that came with the AP.
- **ON/OFF Button** Press the button to power on and off.

Front Panel View



- **WPS LED** This indicator is turned on and blinks when WPS is activated. The LED will turn off automatically once WPS is completed.
- Wireless LAN LED This indicator lights on when the link is established. The indicator blinks when there is data transmission.

- LAN LEDs This indicator lights when there is a connection on the port.
- Power LED This indicator lights on when the AP is powered on.

Installation

Placement of the AP is very important. Do not place the AP in an enclosed area such as a closet, cabinet, or in the attic or garage.

Wireless Performance Considerations

The wireless AP allows you to access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. However, the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1. Keep the number of walls and ceilings between the AP and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless APs, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

TEW-750DAP

Hardware Installation

- 1. Position your AP close to your computer. Place the AP in an open area of your intended work area for better wireless coverage.
- 2. Plug one end of the included blue Ethernet cable that came with your AP into one of the four Ethernet ports on the back of the AP. Plug the other end of this cable into the Ethernet port of your PC.
- 3. Connect the supplied power adapter into the power port on the back of the AP and then plug it into a power outlet or surge protector. Press the power button and verify that the power LED is lit. Allow 1 minute for the AP to boot up.

Configuration

Log in the Web-based Management

1. Open your web browser (e.g. Internet Explorer, Firefox, Safari, Chrome, or Opera) and go to <u>http://192.168.10.100</u>. Your AP will prompt you for a user name and password.



2. When entering the user interface at the first time, the AP requests the user to change the password. It is highly recommended to change to a new password. Enter the new password in the **Password** and **Verify Password** field, and click **Next**. If the user does not change the password, the default password is *admin*.

Welcome to the Setup Wizard.	
	Language : English 💌
Please set and verify a password.	
Password : •••••	
Verify Password : •••••	
Next Cancel	

3. The window displays the wireless settings of the AP. The user can print out or write down the information for Wi-Fi settings. Click **Save** to implement the changes and continue.

Confirm Wi-Fi Settings Below is a detailed summary of your Wi-Fi security settings. Please print this page out or write the information on a piece of paper so that you can configure the correct settings on your Wi-Fi devices. AP IP : AP MAC : 00:14:d1:b1:88:c0 Wi-Fi Network Name (SSID) 2.4GHz : TRENDnet750_2.4GHz_0015 Wireless Encryption : WPA-Personal / AUTO Wi-Fi Network Name (SSID) 5GHz : TRENDnet750_5GHz_0015 Wireless Encryption : WPA-Personal / AUTO Prev Save Exit

4. The AP is saving the settings.



5. After first-time, you will see the following login window when log in the AP. Enter the default user name and password and then click **Login**. If you changed the password in first-time login, enter the new password you set. Default User Name: *admin*

Default Password: admin



6. The main window appears. You can configure the AP by using the Setup Wizard or detail manual configuration.



<u> Main > Wizard</u>

The wizard displays the information of wireless connection. Click **Exit** to finish the configuration.

confirm Wi-Fi Settings
Below is a detailed summary of your Wi-Fi security settings. Please print this page out or write the information on a Diece of paper so that you can configure the correct settings on your Wi-Fi devices.
AP IP :
AP MAC : 00:14:d1:b1:88:c0
Wi-Fi Network Name (SSID) 2.4GHz : TRENDnet750_2.4GHz_0015
Wireless Encryption : WPA-Personal / AUTO
Wi-Fi Network Name (SSID) 5GHz : TRENDnet750_5GHz_0015
Wireless Encryption : WPA-Personal / AUTO

© Copyright 2013 TRENDnet. All Rights Reserved.

This window allows you to configure the local network settings and DHCP settings.

AN Connection Type Choose the mode to be us (Y) LAN Connection is ChOP Server Settings UHCP Server Settings Use this section to configu he computers on your ne inable DHCP Server ChCP IP Address Range Default Subnet Mask Perfault Subnet Mask Perfault Gateway Perfault Wins Perfault DNS ChOP Lease Time	Save Settings Don't Save Settings ed by the Access Point Dynamic IP (OHCP) ree the built-in DHCP server to assign IP address to twork. 192.168.10.101 to 199 255.255.0 199 265.255.0 199 265.255.0 199 265.255.0 26 26 26 26 26 26 26 26 26 26 26 26 26
AN Connection Type Choose the mode to be us (Y) LAN Connection is ChOP Server Settings USE this section to configu he computers on your ne inable DHCP Server CHCP IP Address Range DHCP IP Address Range Default Subnet Mask Perfault Subnet Mask Perfault Gateway Perfault Wins Perfault DNS ChOP Lease Time	Save Settings Don't Save Settings ed by the Access Point Dynamic IP (OHCP) are the built-in DHCP server to assign IP address to twork. 192.168.10.101 to 199 255.255.0 199 265.255.255.0 199 265.255.255.0 265.
AN Connection Type Choose the mode to be us (Y) LAN Connection is ChOP Server Settings USE this section to configu he computers on your ne mable DHCP Server ChCP IP Address Range Perfault Subnet Mask Perfault Gateway Perfault Wins Perfault Wins Perfault DNS ChOP Lease Time Chop Server Chop Lease Time Chop Server Chop Content Chap Content Chop Content Cho	Save Settings Don't Save Settings and by the Access Point Dynamic IP (OHCP) are the built-in DHCP server to assign IP address to twork. 192.168.10.101 to 199 255.255.0 199 265.255.0 199 265.255.0 199 265.255.0 265.255
AN Connection Type Choose the mode to be us (4) LAN Connection is Choose the mode to be us (4) LAN Connection is Choose the mode to be us (4) LAN Connection to configu (4) Lease Time Choose the mode to configu (4) Lease Time Choose Time Choose to configu (4) Lease Time Cho	sed by the Access Point Dynamic IP (DHCP) rre the built-in DHCP server to assign IP address to twork. 192.168.10.101 to 199 255.255.0
AN Connection Type Choose the mode to be us ty LAN Connection is UHCP Server Settings Use this section to configu he computers on your ne inable DHCP Server OHCP IP Address Range Default Subnet Mask Default Gateway Default Wins Default Wins Default DNS DHCP Lease Time	sed by the Access Point Dynamic IP (DHCP) arre the built-in DHCP server to assign IP address to twork. 192_168.10.101 to 199 255_255.255.0 199 256_255.255.0
Choose the mode to be us fy LAN Connection is HCP Server Settings Jse this section to configu he computers on your ne inable DHCP Server HCP IP Address Range Pefault Subnet Mask Pefault Gateway Pefault Wins Pefault Wins Pefault DNS Pefault DNS Pefault DNS Perfault DNS Perfa	eed by the Access Point Dynamic IP (DHCP) The the built-in DHCP server to assign IP address to twork.
Ay LAN Connection is OHCP Server Settings Use this section to configu the computers on your ne cnable DHCP Server OHCP IP Address Range Default Subnet Mask Default Subnet Mask Default Wins Default Wins Default DNS DHCP Lease Time	Dynamic IP (DHCP) Irre the built-in DHCP server to assign IP address to twork. 192.168.10.101 to 199 255.255.0
DHCP Server Settings Use this section to configu he computers on your ne nable DHCP Server DHCP IP Address Range Default Subnet Mask Default Gateway Default Wins Default DNS Default DNS	twork.
Use this section to configu he computers on your ne inable DHCP Server DHCP IP Address Range Default Subnet Mask Default Gateway Default Wins Default DNS Default DNS	are the built-in DHCP server to assign IP address to twork: 192-168.10.101 to 199 255-255.255.0 255-255.0 255-255.255.0 255-2
nable DHCP Server OHCP IP Address Range Default Subnet Mask Default Gateway Default Wins Default DNS Default DNS DHCP Lease Time	192.168.10.101 to 199
DHCP IP Address Range Default Subnet Mask Default Gateway Default Wins Default DNS Default DNS	192.168.10.101 to 199
Default Subnet Mask Default Gateway Default Wins Default DNS DHCP Lease Time	255.255.0
Default Gateway Default Wins Default DNS DHCP Lease Time	
Default Wins Default DNS DHCP Lease Time	
Default DNS DHCP Lease Time	
OHCP Lease Time	
	10080 (minutes)
Ilways Broadcast	Compatibility for some DHCP clients.)
dd DHCP Reservation	
nable	
Computer Name	<- Computer Name
P Address	
IAC Address	
Clone Your PC's MAC	Clone Your PC's MAC Address
Add / Update Clear	
HCP Reservations List	
able Host Name	IP Address MAC Address
lumber of Dynamic DH	CP Clients
ost Name	IP Address MAC Address Expired Time
	dd DHCP Reservation nable omputer Name AC Address AC Ad

LAN Connection Type

My LAN Connection is: Use the drop-down list to select the LAN connection type. The available types are Static IP and Dynamic IP (DHCP).

When selecting **Static IP**, the user need to manually configure the AP's network settings. When selecting **Dynamic IP (DHCP)**, the AP will automatically obtain the network settings from an existing DHCP server on the network.

LAN Connection Type – Static IP

LAN Connection Type				
Choose the mode to be us	sed by the Access	Point		
My LAN Connection is	Static IP	-		
Static IP Address Conn	ection Type			
Enter the static address in	nformation.			
IP Address				
Subnet Mask				
Gateway Address				
Primary DNS Server				
Secondary DNS Server				
DHCP Server Settings				
Use this section to configuent the computers on your ne	ure the built-in Dł etwork.	ICP server to	o assign IP	address t
Enable DHCP Server	-			
DHCP IP Address Range	192.168.10.101	to 199		
Default Subnet Mask	255.255.255.0			
Default Gateway				
Default Wins				
Default DNS				
DHCP Lease Time	10080 (minute	:s)		
Always Broadcast	(Compatibility)	for some DHC	o clients.)	
Add DHCP Reservation				
Enable				
Computer Name		<< Comp	uter Name 💌	
IP Address		j		
MAC Address				
Clone Your PC's MAC Address	Clone Your PC's MA	AC Address		
Add / Update Clear				
DHCP Reservations List				
Enable Host Name	IP Address	MAC	Address	
Number of Dynamic DH	ICP Clients			
Host Name	IP Address	MAC Add	ess Exp	ired Time
	Save	Settings	Don't Save	Settings

After selecting **Static IP** from the **My LAN Connection is** drop-down list, the following parameters will be available to be configured.

IP Address: Enter the IP address of the AP. This IP address must be within your local network address range.

Subnet Mask: Enter the Subnet Mask of the AP.

Default Gateway: Enter the Gateway IP address. This is normally the local IP address of the Internet gateway within the network.

Primary DNS Server: Enter the primary Domain Name System (DNS) server IP address that is supplied by your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address that is supplied by your ISP.

DHCP Server Settings

Enable DHCP Server: When enabling this feature, the AP will host the DHCP server on the network.

DHCP IP Address Range: Enter the starting and ending IP address for the DHCP server's IP assignment.

Default Subnet Mask: Enter the subnet mask of the IP address.

Default Gateway: Enter the default gateway for DHCP server.

Default WINS: Enter the default Windows Internet Name Servers (WINS) address.

Default DNS: Enter the default DNS server address.

DHCP Lease Time: The length of time for the IP address lease. Enter the time in minutes.

Always Broadcast: If all the computers on the LAN successfully obtain their IP addresses from the router's DHCP server as expected, this option can remain disabled. However, if one of the computers on the LAN fails to obtain an IP address from the router's DHCP server, it may have an old DHCP client that incorrectly turns off the broadcast flag of DHCP packets.

Enabling this option will cause the router to always broadcast its responses to all clients, thereby working around the problem, at the cost of increased broadcast traffic on the LAN.

Add DHCP Reservation

Enable: Tick the check box to enable the reservation.

Computer Name: Enter the computer name or select from the drop-down menu and click <<.

IP Address: Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the MAC address of the computer or device.

Clone Your PC's MAC Address: If you want to assign an IP address to the computer you are currently on, click this button to populate the fields.

Click the **Add / Update** button to save the entry. Click the **Clear** button to delete all the information in this section.

DHCP Reservation List

This section displays the reservation entries. The entries include host name, IP address and MAC address. Tick the **Enable** check box of the corresponding

entry to enable the reservation. Click the Souther box of the corresponding

entry to modify the entry. Click the 🗊 button of the corresponding entry to remove the entry.

Number of Dynamic DHCP Clients

This section displays the available DHCP clients.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Main > Password

This window allows you to change the Administrator password. You can also enable Remote Management.

Main	Administrator Settings				
Wizard					
LAN					
Password	Save Settings Don't Save Settings				
Time	Save Settings				
IPv6	Admin Password				
Wireless	Please enter the same password into both boxes, for confirmation.				
Status	Password				
Access	Verify Password				
	System Name				
Tools	Device Name	TEW-750DAP			

Admin Password

Password: Enter a password for the administrator login.Verify Password: Re-type the administrator password.System NameGateway Name: Enter a name for the AP.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Main > Time

This window allows you to configure, update, and maintain the correct time on the internal system clock. You can set the time zone that you are in and set the Time Server. Daylight saving can also be configured to automatically adjust the time when needed.

Main	Time	and Date	e Help			
Wizard						
LAN						
Password				Course Co	Hinan Day	H Course Cattingen
Time				Save Se		Tt Save Settings
IPv6						
	Time and Date Configuration					
Wireless	Time		2000/0	1/01 05:33:43		
Status	Time Zo	one	(GMT+08:0	00) Ulaan Bataar		
Access	Enable Daylight Saving					
Tools	Dayligh	t Saving Offset	+01:00	~		
	Dayligh	t Saving Dates	DST Star DST End	Month Wee t Jan 💌 1st Jan 💌 1st	k Day of Week ▼ Sun ▼ 1. ▼ Sun ▼ 1.	Time 2:00 AM ♥ 2:00 AM ♥
	Automatic Time and Date Configuration					
	🔳 Aut	omatically sync	hronize with	ı Internet tir	ne server.	
	NTP Sei	ver Used			Update Now	
	Set the Time and Date manually.					
	Year	2013	Month	Jan 💌	Day	1
	Hour	5	Minute	32	Second	54
	2	S	ynchronize with	your computer's	time settings.	
				Save Se	ettings Dor	n't Save Settings

Time and Date Configuration

Time: Displays the current date and time of the AP

Time Zone: Select your time zone from the drop-down menu.

Enable Daylight Saving: Tick the check box to enable the daylight saving when your local time has daylight saving.

Daylight Saving Offset: Use the drop-down menu to select the daylight savings offset from standard time.

Daylight Saving Dates: Use the drop-down menu to select the start and end date for daylight saving time.

Automatic Time and Date Configuration

Automatically synchronize with Internet time server: Tick the check box to automatically synchronize the AP's time with a NTP server.

NTP Server Used: Enter the IP address of a NTP server that the AP synchronizes the time with.

Click the **Update Now** button to connect to the NTP server and synchronize the time.

Set the Time and Date Manually

In this section, you can manually select the specific time for the AP. Use the drop-down menus of Year, Month, Day, Hour, Minute and Second to configure the AP's time. You can also click the **Synchronize with Your Computer's Time Settings** button to have the AP's time the same as your local computer.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Main > IPv6

This window allows you to configure the IPv6 connection. The available IPv6 connection are **Static IPv6**, **Auto-configuration (SLAAC/DHCPv6)**, and **Link-local Only**.

Main	IPv6 Help			
Wizard				
LAN				
Password	Save Settings Don't Save Settings			
Time				
IPv6	IPv6 Connection Type			
Wireless	Choose the mode to be used by Access Point.			
Status	My IPv6 Connection is Link-local Only			
	LAN IPv6 ADDRESS SETTINGS			
Access	Use this section to configure the internal network settings of your AD. The			
Tools	LAN IPv6 Link-Local Address fe80::214:d1ff:feb1:88c0 /64			

IPv6 Connection Type – Static IPv6

Main	
Wizard	
LAN	
Password	Save Settings Don't Save Settings
Time	
IPv6	IPv6 Connection Type
Wireless	Choose the mode to be used by Access Point.
Status	My IPv6 Connection is Static IPv6
	LAN IPv6 ADDRESS SETTINGS
Access	Enter the IDv6 address information provided by your Internet Service
Tools	Provider (ISP).
	IPv6 Address
	Subnet Prefix Length
	Default Gateway
	Primary DNS Server
	Secondary DNS Server

LAN IPv6 Address Settings

IPv6 Address: Enter the IPv6 address of the AP.

Subnet Prefix Length: Enter the subnet prefix length.

Default Gateway: Enter the default gateway IPv6 address.

Primary DNS Server: Enter the primary IPv6 DNS server address.

Secondary DNS Server: Enter the secondary IPv6 DNS server address.

IPv6 Connection Type – Auto-configuration (SLAAC/DHCPv6)

IPv6 Connection Type

Choose the mode to be used by Access Point.

My IPv6 Connection is

Auto-configuration(SLAAC/DHCPv6)

IPv6 DNS SETTINGS

Obtain DNS server address automatically or enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically

• Use the following IPv6 DNS Servers

Primary DNS Server

Secondary DNS Server

IPv6 DNS Settings

Obtain IPv6 DNS Servers automatically: Allows the AP to automatically obtain IPv6 DNS server IP addresses.

Use the following IPv6 DNS Servers: Manually enters the IPv6 DNS server IP addresses.

Primary DNS Server: Enter the primary IPv6 DNS server address. This field is only available when Use the following IPv6 DNS Servers is selected.

Secondary DNS Server: Enter the secondary IPv6 DNS server address. This field is only available when Use the following IPv6 DNS Servers is selected.

IPv6 Connection Type – Link-local Only

IPv6 Connection Type Choose the mode to be used by Access Point. My IPv6 Connection is Link-local Only LAN IPv6 ADDRESS SETTINGS

Use this section to configure the internal network settings of your AP. The LAN IPv6 Link-Local Address is the IPv6 Address that you use to access the Web-based management interface.

LAN IPv6 Link-Local Address fe80::214:d1ff:feb1:88c0 /64

LAN IPv6 Address Settings

LAN IPv6 Link-local Address: This field displays the LAN IPv6 link-local address.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Wireless > Basic

This window allows you to set up wireless settings of the AP.

iin iin	Wireless Networ	k Help			
reless					
ISIC					
Ivanced	Save Settings Don't Save Settings				
I-Fi Protected Setup	Wireless Network Settir	105			
atus	Wireless Band	2.4GHz Band			
	Enable Wireless	2 Aways New Schedule			
cess	Mode	AP •			
ols	Wireless Network Name	TRENDnat750_2.4GHz.4 (This is also called the SSID.)			
	802.11 Mode	Mixed 802 11n, 802 11g and 802 11b			
	Enable Auto Channel Scan	7			
	Wireless Channel	2.412 GHz- CH 1 *			
	Transmission Rate	Rest (Automatic)			
	Channel Width	20 MHz			
	Look the Cost of				
	visibility status	O Visible ● Invisible			
	WMM Enable	(Wireless QoS)			
	Wireless Security Mode				
	Security Mode	WPA-Personal			
	WPA				
	WPA Mode	Auto(WPA or WPA2) •			
	Cipher Type	TKIP and AES •			
	Group Key Update Interval	3600 (seconds)			
	Pre-Shared Key				
	Enter an 8 to 63 ASCII or 8 to 64 HEX alphanumeric pass-phrase. For good				
	security it should be of an phrase.	ple length and should not be a commonly known			
	Pre-Shared Key	750RD800015			
	Wireless Network Settin	igs			
	Wireless Band	SGHz Band			
	Enable Wireless	Aways New Schedule			
	Mode	AP -			
	Wireless Network Name	TRENDnet750_5GHz_00 (This is also called the SSID.)			
	802.11 Mode	Mixed 802 11a and 882 11n .			
	Enable Auto Channel Scan	0			
	Wireless Channel	6:180 GHz - CH 36 ·			
	Transmission Rate	Best (Automatic) (Mbit/s)			
	Channel Width	20/40 MHz(Auto)			
	Visibility Status	© visible Invisible			
	WMM Enable	(Wireless OoS)			
	Security Mode	WPA-Personal			
	WPA Mode	Auto(WPA or WPA2)			
	Cipher Type	TKIP and AES			
	Group Key Update Interval	3600 (seconds)			
	Dec. Charact Marc				
	Pre-Shared Key				
	Enter an 8 to 63 ASCII or security it should be of an phrase.	8 to 64 HEX alphanumeric pass-phrase. For good ple length and should not be a commonly known			
	Pre-Shared Key	750RD800015			

Wireless Network Settings - 2.4GHz Band

Wireless Network Settings		
Wireless Band	2.4GHz Band	
Enable Wireless	Always 💌 New Schedule	
Mode	AP	
Wireless Network Name	TRENDnet750_2.4GHz_I (This is also called the SSID.)	
802.11 Mode	Mixed 802.11n, 802.11g and 802.11b	
Enable Auto Channel Scan		
Wireless Channel	2.412 GHz - CH 1 💌	
Transmission Rate	Best (Automatic) 💌 (Mbit/s)	
Channel Width	20 MHz	
Visibility Status	O Visible ● Invisible	
WMM Enable	🗹 (Wireless QoS)	

Wireless Band: This displays the wireless band that the AP is used.

Enable Wireless: Tick the check box to enable the wireless feature for the 2.4GHz band on this AP. Use the drop-down menu to apply a time schedule to this wireless network.

Mode: Use the drop-down menu to select the wireless mode. Available options are **AP**, **WDS**, and **WDS+AP**.

Wireless Network Name: Enter the wireless network name (SSID). This name will be available when wireless clients scan for available wireless networks. However, when Visibility Status is set to Invisible, this name will not be visible to wireless clients.

802.11 Mode: Select which 802.11 wireless modes to use from the drop-down menu. Options to choose from are **802.11b** only, **802.11g** only, **802.11n** only, **Mixed 802.11g** and **802.11b**, **Mixed 802.11n** and **802.11g**, and **Mixed 802.11n**, **802.11g** and **802.11b**. If you are not sure, select **Mixed 802.11n**, **802.11g** and **802.11g**.

Enable Auto Channel Scan: Tick the check box to allow the AP to find and use the wireless channel with the least interference in your environment.

Wireless Channel: Deselect Enable Auto Channel Scan to be able to configure this. Use the drop-down menu to select a wireless channel.

Transmission Rate: Select the wireless transmission rate. It is advisable to keep this option on **Best (Automatic)**.

Channel Width: Select the wireless channel width used. Options to choose from are 20MHz and 20/40MHz (Auto).

Visibility Status: Click Invisible to hide the Wireless SSID and Visible to reveal it.

WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Wireless Mode – WDS

When selecting **WDS** in the **Mode** drop-down menu, the following section appears.



Remote AP MAC Address: Enter the MAC address of a remote AP. Click the Site Survey button to see the available AP in the area. Click the radio button to select the corresponding AP and **Connect** to have the AP's MAC address in the field.

Wireless Mode – WDS+AP

When selecting **WDS+AP** in the **Mode** drop-down menu, the following section appears.

WDS Enable Lazy Mode Remote AP MAC Address Site Survey

Enable Lazy Mode: Tick the check box to enable the Lazy mode. When enabling the Lazy mode, there is no need to enter the MAC address of any remote AP.

Remote AP MAC Address: Enter the MAC address of a remote AP. Click the radio button to select the corresponding AP and **Connect** to have the AP's MAC address in the field.

Wireless Security Mode

This section allows you to select various wireless security modes for the 2.4GHz band. The corresponding configuration will then appear at the bottom half of the window. Available options are **None**, **WEP**, **WPA-Personal** and **WPA-Enterprise**.

Wireless Security Mode - None

Wireless Security Mode	
Security Mode	None

By selecting this mode, there will be no wireless security applied to your wireless network. This means that anyone with a wireless adapter can connect to your network.

TEW-750DAP

Wireless Security Mode – WEP

Wired Equivalent Privacy (WEP) is any entry level wireless security method that we can use to prevent unauthorized wireless access to this AP. WEP is not a very secure option, but it is better than no wireless security.

Wireless Security Mode	
Security Mode	WEP
WEP	
WEP Key Length	64 bit (10 hex digits) 💌 (length applies to all keys)
Authentication	BOTH
WEP Key 1	

WEP Key Length: Select the WEP Key Length value as 64 bit (10 hex digits) or 128 bit (26 hex digits).

Authentication: Select the WEP authentication option. Options to choose from are Both and Shared Key.

WEP Key: Enter a wireless security key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Wireless Security Mode – WPA-Personal

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unauthorized wireless access to this AP. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unauthorized wireless access to this AP.

WPA Personal does not require an authentication server.

Wireless Security Mode		
Security Mode	WPA-Personal	
WPA		
WPA Mode	Auto(WPA or WPA2)	
Cipher Type	TKIP and AES	
Group Key Update Interval	3600 (seconds)	
Pre-Shared Key		

Enter an 8 to 63 ASCII or 8 to 64 HEX alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key

750RD800015

WPA Mode: Select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.

Cipher Type: Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.

Group Key Update Interval: Enter the group key update interval time in seconds.

Pre-shared Key

Pre-shared Key: Enter the WPA-Personal wireless Pre-Shared Key. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Wireless Security Mode – WPA-Enterprise

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unauthorized wireless access to this AP. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unauthorized wireless access to this AP.

WPA-Enterprise requires the use of an external RADIUS server.

Wireless Security Mode		
Security Mode	WPA-Enterprise	
WPA		
WPA Mode	Auto(WPA or WPA2)	
Cipher Type	TKIP and AES 💌	
Group Key Update Interval	3600 (seconds)	
FAD		

EAP

When WPA enterprise is enabled, the access point uses EAP to authenticate clients via a remote RADIUS server.

RADIUS server IP Address	
RADIUS server Port	1812
RADIUS server Shared Secret	
Advance Setting	Advanced >>

WPA Mode: Select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.

Cipher Type: Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.

Group Key Update Interval: Enter the group key update interval time in seconds.

EAP

RADIUS Server IP Address: Enter the IP address of the external RADIUS server.

RADIUS Server Port: Enter the external RADIUS server port number.

RADIUS Server Shared Secret: Enter the RADIUS server shared secret. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Advance Setting: Click the Advanced >> button to configure settings for an optional secondary RADIUS server.

Advance Setting	Advanced
Second RADIUS server IP Address	
Second RADIUS server Port	1812
Second RADIUS server Shared Secret	

Second RADIUS Server IP Address: Enter the IP address of the external RADIUS server.

Second RADIUS Server Port: Enter the external RADIUS server port number. Second RADIUS Server Shared Secret: Enter the RADIUS server shared secret. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Wireless Network Settings – 5GHz Band

Wireless Network Settings	
Wireless Band	5GHz Band
Enable Wireless	Always 💌 New Schedule
Mode	AP 💌
Wireless Network Name	TRENDnet750_5GHz_00 (This is also called the SSID.)
802.11 Mode	Mixed 802.11a and 802.11n ▼
Enable Auto Channel Scan	
Wireless Channel	5.180 GHz - CH 36 💌
Transmission Rate	Best (Automatic) 🔽 (Mbit/s)
Channel Width	20/40 MHz(Auto)
Visibility Status	◎ Visible ● Invisible
WMM Enable	(Wireless QoS)

Wireless Band: This displays the wireless band that the AP is used.

Enable Wireless: Tick the check box to enable the wireless feature for the 5GHz band on this AP. Use the drop-down menu to apply a time schedule to this wireless network.

Mode: Use the drop-down menu to select the wireless mode. Available options are **AP**, **WDS**, and **WDS+AP**.

Wireless Network Name: Enter the wireless network name (SSID). This name will be available when wireless clients scan for available wireless networks. However, when **Visibility Status** is set to **Invisible**, this name will not be visible to wireless clients.

802.11 Mode: Select which 802.11 wireless modes to use from the drop-down menu. Options to choose from are **802.11a only**, **802.11n only**, and **Mixed 802.11a and 802.11n**. If you are not sure, select **Mixed 802.11a and 802.11n**.

Enable Auto Channel Scan: Tick the check box to allow the AP to find and use the wireless channel with the least interference in your environment.

Wireless Channel: Deselect **Enable Auto Channel Scan** to be able to configure this. Use the drop-down menu to select a wireless channel.

Transmission Rate: Select the wireless transmission rate. It is advisable to keep this option on **Best (Automatic)**.

Channel Width: Select the wireless channel width used. Options to choose from are **20MHz** and **20/40MHz (Auto)**.

Visibility Status: Click Invisible to hide the Wireless SSID and Visible to reveal it.

WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Wireless Mode – WDS

When selecting **WDS** in the **Mode** drop-down menu, the following section appears.

WDS	
Remote AP MAC Address	Site Survey
An and a second se	

Remote AP MAC Address: Enter the MAC address of a remote AP. Click the radio button to select the corresponding AP and **Connect** to have the AP's MAC address in the field.

Wireless Mode – WDS+AP

When selecting **WDS+AP** in the **Mode** drop-down menu, the following section appears.

WDS	
Enable Lazy Mode	
Remote AP MAC Address	Site Survey

Enable Lazy Mode: Tick the check box to enable the Lazy mode. When enabling the Lazy mode, there is no need to enter the MAC address of any remote AP.

Wireless Security Mode

This section allows you to select various wireless security modes for the 5GHz band. The corresponding configuration will then appear at the bottom half of the window. Available options are **None**, **WEP**, **WPA-Personal** and **WPA-Enterprise**.

Wireless Security Mode – None



By selecting this mode, there will be no wireless security applied to your wireless network. This means that anyone with a wireless adapter can connect to your network.

Wireless Security Mode – WEP

Wired Equivalent Privacy (WEP) is any entry level wireless security method that we can use to prevent unauthorized wireless access to this AP. WEP is not a very secure option, but it is better than no wireless security.

Wireless Security Mode		
Security Mode	WEP 💌	
WEP		
WEP Key Length	64 bit (10 hex digits) 💌 (length applies to all keys)	
Authentication	Shared Key 💌	
WEP Key 1		

WEP Key Length: Select the WEP Key Length value as 64 bit (10 hex digits) or 128 bit (26 hex digits).

Authentication: Select the WEP authentication option. Options to choose from are **Both** and **Shared Key**.

WEP Key: Enter a wireless security key here. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Wireless Security Mode – WPA-Personal

Wi-Fi Protected Access (WPA) is a more advanced wireless security method that we can use to prevent unauthorized wireless access to this AP. Wi-Fi Protected Access (WPA2) is the most advanced wireless security method that we can use to prevent unauthorized wireless access to this AP.

WPA Personal does not require an authentication server.

Wireless Security Mode		
Security Mode	WPA-Personal	
WPA		
WPA Mode	WPA2 Only	
Cipher Type	AES 💌	
Group Key Update Interval	3600	(seconds)
Pre-Shared Key		
Enter an 8 to 63 ASCII or 8 to 64 HEX alphanumeric pass-phrase. For good		

Enter an 8 to 63 ASCII or 8 to 64 HEX alphanumeric pass-phrase. For good security it should be of ample length and should not be a commonly known phrase.

Pre-Shared Key

750RD800015

WPA Mode: Select which WPA mode to use. Options to choose from are Auto (WPA or WPA2), WPA2 Only, and WPA Only.

Cipher Type: Select the wireless cipher type here. Options to choose from are **TKIP and AES**, **TKIP**, and **AES**.

Group Key Update Interval: Enter the group key update interval time in seconds.

Pre-shared Key

Pre-shared Key: Enter the WPA-Personal wireless Pre-Shared Key. This key must be configured on all the wireless clients for them to be able to connect to your wireless network.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Wireless > Advanced

This window is used to configure more advanced wireless settings on the AP.

Main	Advanced Wireless settings Hep				
Wireless					
Basic Advanced Wi-Fi Protected Setup		Save Settings Don't Save Settings			
	Advanced Wireless Sett	ings			
Status	Wireless Band	2.4GHz Band			
Access	Transmit Power	100%			
Tools	Beacon Period	100 (milliseconds, Range: 20~1000, default: 100)			
	Preamble Type	Short Preamble O Long Preamble			
	Advanced Wireless Settings				
	Wireless Band	5GHz Band			
	Transmit Power	100% 💌			
	Beacon Period	100 (milliseconds, Range: 20~1000, default: 100)			
	Preamble Type	Short Preamble O Long Preamble			
		Save Settings Don't Save Settings			

Wireless Band: Displays the wireless band that can be configured. Transmit Power: Select the wireless transmit power for the 2.4GHz band. Options to choose from are 100%, 50%, 25% and 12.5%. **Beacon Period:** Enter the duration between beacon packets in milliseconds. **Preamble Type:** Click to select **Short Preamble** or **Long Preamble**. **DTIM Interval:** Enter a Delivery Traffic Indication Message interval.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Wireless > Wi-Fi Protected Setup

This window is used to configure the Wi-Fi Protected Setup (WPS) settings on the AP.

Main	Wi-Fi Protected Setup						
Wireless							
Basic Advanced Wi-Fi Protected Setup	Wi-Fi Protected Setup	Save Settings	Don't Save Settings				
Status	Enable	2					
Access	Wi-Fi Protected Setup	Enable/Configured					
Tools	Lock WPS-PIN Setup						
	PIN Settings						
	PIN	00657938					
	Reset PIN to Default/Generate New PIN						
	Reset PIN to Default Gener	ate New PIN					
Add Wireless Station							
	Connect your Wireless Device						
Connect							
		Save Settings	Don't Save Settings				

Wi-Fi Protected Setup

Enable: Tick the check box to enable the Wi-Fi Protected Setup (WPS) feature. **Wi-Fi Protected Setup:** Displays the status of the WPS feature.

TEW-750DAP

Lock WPS-PIN Setup: Un-tick the check box to unlock the WPS-PIN setup when the WPS-PIN setup is locked.

PIN Settings

PIN: Displays the WPS PIN.

Reset PIN to Default/Generate New PIN: Click the **Reset PIN to Default** button to to clear the PIN number used. Click the **Generate New PIN** button to generate a new WPS PIN.

Add Wireless Station

Connect your Wireless Device: Click the **Connect** button to initiate the Wi-Fi Protected Setup (WPS) setup wizard.

Click the **Save Settings** button to accept the changes made.

Click the **Don't Save Settings** button to discard the changes made.

When clicking the **Connect** button in the Add Wireless Station section, the following window appears.

Main	Step 1: Select Configuration Method for your Wireless Network
Wireless Basic Advanced Wi-Fi Protected Setup	Please select one of following configuration methods and click next to continue. O Auto:Select this option if your wireless device supports WPS (Wi-Fi Protected Setup) Manual:Select this option will display the current wireless settings for you to configure the wireless device manually Prev Next Cancel Connect
Status	
Routing	
Access	
Tools	

Step 1: Select Configuration Method for your Wireless Network

Step 1: Select Configuration Method for your Wireless Network

Please select one of following configuration methods and click next to continue.

- O Auto:Select this option if your wireless device supports WPS (Wi-Fi Protected Setup)
- Manual:Select this option will display the current wireless settings for you to configure the wireless device manually



Auto: Select this option to automatically allow the AP and the wireless client to connect to each other by means of WPS.

Manual: Select this option to display the configured wireless settings. This information can then be configured of the wireless clients manually to initiate a wireless connection.

Click the Next button to continue to the next step.

Click the **Cancel** button to discard the changes made and return to the main menu.

Step 2: Connect your Wireless Device

After selecting the Auto radio button in Step 1, the window will be available.

Step 2: Connect your Wireless Device

There are two ways to add wireless device to your wireless network: -PIN (Personal Identification Number) -PBC (Push Button Configuration)

• PIN :

please enter the PIN from your wireless device and click the below "Connect" Button within 120 seconds

PBC

please press the push button on your wireless device and click the below "Connect" Button within 120 seconds

I	Prev	Next	Cancel	Connec

- **PIN:** Select this option to use the Personal Identification Number (PIN) method to connect the two devices. Enter the PIN number here. Enter the same PIN number at the wireless client software.
- **PBC:** Select this option to use the Push Button Configuration (PBC) method to connect the two devices.

Click the **Connect** button to initiate the WPS connection.

Click the Prev button to return to the previous step.

Click the **Cancel** button to discard the changes made and return to the main menu.

Select the **PIN** radio button, enter the PIN the **PIN** field, and click the **Connect** button in Step 2, the following window will be available. The AP will allow 120 seconds for the WPS connection to initiate.



Cancel

Next

Connect

Adding wireless device .: Started.

After successfully connecting the AP and the wireless client, by means of WPS, the following window will be available.

Step 2: Connect your Wireless Device

Adding wireless device.: Succeeded. To add another device click on the Cancel button below or click on the Wireless Status button to check the wireless status.

Prev Next Cancel Wireless Status

Click the **Cancel** button to finish the setup and return to the main menu. Click the **Wireless Status** button to view information about wireless clients connected to the AP.

After selecting the Manual radio button in Step 1, the window will be available.

Step 2: Connect your Wireless Device

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

2.4 GHz Frequency				
SSID: TRENDnet733_2	.4GHz_1234			
Security Mode: Auto	(WPA or V	WPA2) - I	Personal	
Cipher Type: TKIP a	nd AES			
Pre-shared Key:				
73312345678				
	Prev	Next	Cancel	Wireless Status

This information can then be configured of the wireless clients manually to initiate a wireless connection.

Click the **Prev** button to return to the previous step.

Click the **Cancel** button to finish the setup and return to the main menu.

Click the **Wireless Status** button to view information about wireless clients connected to the AP.

After clicking the Wireless Status button, the following window appears.

Connected Wireless Client List Help							
Number Of Wi	ireless Clien	ts - 2.	4GHz Ban	nd : 1			
MAC Address IP Address Mode Rate (Mbps) Signal (%)							
1C:7E:E5:CB:92:75	192.168.10.100	11n	65	100			

Status > Device Information

This window displays the detail information about the AP. You can view General, Ethernet, and Wireless LAN information.

Device Inform	Device Information Hep			
General				
Time	2000/01/01 01:44:44			
System Up Time	0 Day 1 Hour 44 Min 45 Sec			
Firmware Version	1.00 Sun 28 Apr 2013			
Ethernet				
Connection Type	DHCP Client			
MAC Address	00:14:d1:b1:88:c0			
IP Address				
Subnet Mask				
Default Gateway				
Primary DNS Server				
Secondary DNS Server				
Wireless LAN - 2.4G	Iz Band			
Wireless Radio	Enabled			
MAC Address	00:14:d1:b1:88:c0			
802.11 Mode	Mixed 802.11n, 802.11g and 802.11b			
Channel Width	20MHz			
Channel				
Network Name (SSID)	TRENDnet750_2.4GHz_0015			
Wi-Fi Protected Setup	Enabled/Configured			
Security	WPA/WPA2-PSK			
Guest Zone Wireless Radio	Disabled			
Guest Zone Network Name (SSID)	e TRENDnet750_2.4GHz_guest			
Guest Zone Security	WPA2-PSK			
Wireless LAN - 5GHz	Band			
Wireless Radio	Enabled			
MAC Address	00:14:d1:b1:88:c2			
802.11 Mode	Mixed 802.11n and 802.11a			
Channel Width	20/40MHz			
Channel				
Network Name (SSID)	TRENDnet750_5GHz_0015			
Wi-Fi Protected Setup	Enabled/Configured			
Security	WPA/WPA2-PSK			
Guest Zone Wireless Radio	Disabled			
Guest Zone Network Name (SSID)	e TRENDnet750_5GHz_guest			
Guest Zone Security	WPA2-PSK			

Main

Statistic

TEW-750DAP

Status > Log

This window allows you to view and configure the system log settings for this AP.

Save Log File

You can initiate the saving of the log file to the management computer. Click the **Save** button to download the log file to the management computer.

Log Type & Level

This section allows you to configure the log type and level.

Log Type: Select the log type to be displayed. Available options are System, Security, and AP Status.

Log Level: Select the log level to be displayed. Available options are Critical, Warning, and Information.

Log Files

The system log is displayed in the section.

Click the First Page button to view the first page.

Click the Last Page button to view the last page.

Click the **Previous** button to view the previous page.

Click the Next button to view the next page.

Click the **Clear** button to the log.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Main	View Log	Help				
Wireless						
Status		Save Settings Don't Save Settings				
Device Information	Save Log File					
Statistics	Save Log File To	Save Log File To Local Hard Drive. Save				
Wireless IPv6	Log Type & Lev	Log Type & Level				
Access	Log Type	 System Security AP Status 				
Tools	Log Level	 Critical Warning Information 				
	Log Files	Log Files				
	First Page Last Pa	age Previous Next Clear				
	Time	Message				
	Sat Jan 1 01:53:56 2000	DHCP: Client send DISCOVER_				
	Sat Jan 1 01:53:33 2000	Log cleared by user				

Status > Statistic

This window displays the LAN, and Wireless interface statistics for the AP.

Main	Traffic Stati	Traffic Statistics Hep					
Wireless							
Status	Refresh Statistics Refresh Statistics	Refresh Statistics Reset Statistics					
Daving Information	LAN Statistics	LAN Statistics					
Device Information	Sent	5080	Received	3569			
Log	TX Packets Dropped	0	RX Packets Dropped	0			
Statistics	Collisions	0	Errors	0			
Wireless	Wireless Statisti	Wireless Statistics - 2.4GHz Band					
IPv6	Sent	0	Received	0			
	TX Packets Dropped	0	RX Packets Dropped	0			
Access	Collisions	0	Errors	0			
Tools	Wireless Statistics - 5GHz Band						
10015	Sent	0	Received	0			
	TX Packets Dropped	0	RX Packets Dropped	0			
	Collisions	0	Errors	0			

Click the **Refresh Statistics** button to refresh the information on this page. Click the **Reset Statistics** button to clear the information on the page.

TEW-750DAP

Status > Wireless

This window displays a list of wireless clients connected to the AP.

Main	Connected	Wireless C	lient	List 🗾	elp			
Wireless								
Status	Number Of Wireless Clients - 2.4GHz Band : 0							
	MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)	Antenna		
Device Information	Number Of Wire	less Clients - 5	GHz Bar	nd : 0				
Log	MAC Address	IP Address	Mode	Rate (Mbps)	Signal (%)	Antenna		
Statistics								
Wireless								
IPv6								
Access								
Tools								

Status > IPv6

This window displays the detail IPv6 network information.

Main	IPv6 Network Information					
Wireless						
Status	IPv6 Connection Inform	nation				
Device Information	IPv6 Connection Type	Link-local Only				
Log	LAN IPv6 Address	none				
Statistics Wireless	IPv6 Default Gateway	none				
IPv6	LAN IPv6 Link-Local Address	fe80::214:d1ff:feb1:88c0/64				
Access	Primary IPv6 DNS Server	none				
Tools	Secondary IPv6 DNS Server	none				

Access > MAC Filters

This window allows you to configure the MAC address filter. The rules can be set up to 24 entries.

Main	MAC Address	MAC Address Filter					
Wireless							
Status			Save Settin	gs Dor	't Save Settings		
Access	24 MAC Filtering	Rules					
MAC Filters	Configure MAC Filteri	ng below	<i>ı</i> :				
Guest Zone	Turn MAC Filtering OFF	5		•			
Advanced Network	Remaining number of	f rules th	at can be created.:				
i-	MAC Address		DHCP Client List	1	Schedule		
Tools		<<	Computer Name 👻	Always 💌	New Schedule		
		<<	Computer Name	Always 💌	New Schedule		
		<<	Computer Name 👻	Always 🔻	New Schedule		
		<<	Computer Name 👻	Always 🔻	New Schedule		
		<<	Computer Name 👻	Always 🔻	New Schedule		
		<<	Computer Name	Always 👻	New Schedule		
		<<	Computer Name 👻	Always 💌	New Schedule		
		<<	Computer Name 💌	Always 👻	New Schedule		
		<<	Computer Name 👻	Always 👻	New Schedule		
		<<	Computer Name 💌	Always 💌	New Schedule		
		<<	Computer Name 💌	Always 💌	New Schedule		
			Computer Name -	Always 💌	New Schedule		
		<<	Computer Name 💌	Always 👻	New Schedule		
		<<	Computer Name	Always 💌	New Schedule		
		<<	Computer Name	Always 💌	New Schedule		
		<<	Computer Name 👻	Always 💌	New Schedule		
		<<	Computer Name 👻	Always 👻	New Schedule		

Configure MAC Filtering below: Select the MAC filtering method. Select Turn MAC Filtering OFF to disable this feature. Select Turn MAC Filtering ON and ALLOW computers listed to access the network to enable this feature and only allow the computers, by MAC address, to access the network. Select Turn MAC Filtering ON and DENY computers listed to access the network to

enable this feature and only deny the computers, by MAC address, access to the network.

Checkbox: Tick the check box of each entry to enable the selected rule.

MAC Address: Enter the MAC address to be filtered.

DHCP Client List: Select the DHCP client from the drop-down menu to be filtered.

Schedule: Select the time schedule for the rule. Click the **New Schedule** button to create time schedules.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Access > Guest Zone

This window allows you to create temporary zones that can be used by guests to access the Internet. The guest zone will be separated from your main wireless network.

Main	Guest Zone Selection Help		
Wireless			
Status		Save Settings Don't Save Settings	
Access	Guest Zone		
MAC Filters	Enable Routing Between Zones		
Advanced Network	Session 2.4Ghz		
	Wireless Band	2.4GHz Band	
Tools	Enable Guest Zone	Always - New Schedule	
	Wireless Network Name	TRENDnet750_2.4GHz_ (This is also called the SSID.)	
	Security Mode	None	
	Session 5Ghz		
	Wireless Band	5GHz Band	
	Enable Guest Zone	Always - New Schedule	
	Wireless Network Name	TRENDnet750_5GHz_gu (This is also called the SSID.)	
	Security Mode	None	
		Save Settings Don't Save Settings	

Guest Zone

Enable Routing Between Zones: Tick the check box to allow the routing between zones.

Wireless Band: Displays the wireless band.

Enable Guest Zone: Tick the check box to enable the Guest Zone feature, and use the drop-down menu to select the time schedule or click the **New Schedule** button to create time schedules.

Wireless Network Name: Enter a wireless network name (SSID) that is different from your main wireless network.

Enable Routing Between Zones: Check to allow network connectivity between the different zones created.

Security Mode: Select the type of security or encryption you would like to enable for the guest zone. Refer to **Wireless > Basic > Wireless Security Mode** for configuring the wireless security mode.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Access > Advanced Network

This window is used to configure more advanced network settings on the AP.

Main	Advanced Network Settings	
Wireless		
Status	Save Settings Don't Save Settings	
Access	IPv4 Multicast Streams	
MAC Filters Guest Zone Advanced Network	Wireless Enhanced Mode	
Tools		

Wireless Enhanced Mode: Tick the check box to enable wireless enhanced mode.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Tools > Restart

This window is used to save and restore the configuration, and restart the AP.

Main	Save and Restore Set	Save and Restore Settings			
Wireless					
Status	Save and Restore Settings	Save and Restore Settings			
	Save Settings to Local Hard Drive	Save Configuration			
Access	Load Settings From Local Hard Drive	Browse			
Tools	Restore Configuration From File	Restore			
Restart Firmware	Restore To Factory Default Settings	Restore Factory Defaults			
Ping Test	Reboot The Device	Reboot the Device			
Email Settings					
Syslog					
Schedules					

Save Settings to Local Hard Drive: Click the **Save Configuration** button to download the AP's settings to the management computers.

Load Settings From Local Hard Drive: Click the **Browse** button to navigate to the saved configuration file on the management computer and click the **Restore** button to restore the AP's configuration to the settings configured on the configuration file.

Restore To Factory Default Settings: Click **the Restore Factory Defaults** button to remove all the settings configured on this AP and return the settings to the factory defaults.

Reboot The Device: Click the **Reboot the Device** button to reboot the AP. All unsaved configurations will be discarded.

Tools > Firmware

This window is used to display the current firmware information and initiate a firmware upgrade for the AP.

Main	Firmware Updat	Firmware Update Help		
Wireless				
Status	Firmware Information	Firmware Information		
	Current Firmware Version	1.00		
Access	Current Firmware Time	04/28/2013 17:57:00		
Tools	Firmware Upgrade	Firmware Upgrade		
Restart Firmware Ping Test Email Settings Syslog Schedules	Note: Some firmware up factory defaults. Before p configuration. To upgrade the firmware access point. Enter the n Upload button.	Note: Some firmware upgrades will reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration. To upgrade the firmware, your PC must have a wired connection to the access point. Enter the name of the firmware upgrade file, and click on the Upload button.		
	Upload	BrowseUpload		

Upload: Click the **Browse** button to navigate to the new firmware file located on the management computers, and click the **Upload** button to initiate the firmware upgrade procedure. The firmware upgrades sometimes will reset the configuration to the factory defaults. Make sure to save the current configuration to the management computer, before performing firmware upgrade.

Tools > Ping Test

This window is used to initiate a ping test to IPv4 and IPv6 address.

Main	Ping Test Hep			
Wireless				
Status	Ping Test			
	Host Name or IP Address Ping			
Access	IPv6 Ping Test			
Tools	Host Name or IPv6 Address Ping			
Restart				
Firmware	Ping Result			
Ping Test	Enter a host name or IP address above and click Ping.			
Email Settings				
Syslog				
Schedules				

Ping Test

Host Name or IP Address: Enter the IPv4 address or host name of the target in the text box and click the **Ping** button to initiate the Ping test.

IPv6 Ping Test

Host Name or IPv6 Address: Enter the IPv6 address or host name of the target in the text box and click the **Ping** button to initiate the Ping test.

Ping Result

The ping result will display in this section.

Tools > Email Settings

This window allows you to configure the e-mail settings for the AP to send the notification to the e-mail account.

Main	Email Settings Help		
Wireless			
Status		Save Settings Don't Save Settings	
Access	Email Notification		
Tools	Enable Email Notification :	•	
Restart	Email Settings		
Firmware Ping Test	From Email Address		
Email Settings	To Email Address		
Syslog Schedules	Email Subject		
	SMTP Server Address		
	SMTP Server Port	25	
	Enable Authentication		
	Account Name		
	Password		
	Verify Password	Send Mail Now	
	Email Log When Full		
	Enable Log When Full :		

Email Notification

Enable Email Notification: Tick the check box to enable the email notification feature.

Email Settings

From Email Address: Enter the sender's email address.

To Email Address: Enter the recipient's email address. Email Subject: Enter the email's subject information. SMTP Server Address: Enter the SMTP server's IP address. SMTP Server Port: Enter the SMTP server's port number. Enable Authentication: Tick the check box to enable SMTP authentication. Account Name: Enter the email account username. Password: Enter the email account password. Verify Password: Re-type the email account password. Email Log when Full

Enable Log When Full: Tick the check box to send out an email when the log space is close to depletion.

Click the **Save Settings** button to accept the changes made. Click the **Don't Save Settings** button to discard the changes made.

Tools > Syslog

The AP keeps a running log of events and activities occurring on the AP. You may send these logs to a SysLog server on your network.

Main	Syslog Help
Wireless	
Status	Save Settings Don't Save Settings
Access	Syslog Settings
Tools	Enable Logging to SysLog Server
Restart	
Firmware	
Ping Test	
Email Settings	
Syslog	
Schedules	

Enable Logging to SysLog Server: Tick the box to send the AP logs to a SysLog Server.

Tools > Schedules

This window is used to configure the time and date schedules. The configured schedule can be applied to various functions.

Main	Schedule	Schedules Hep		
Wireless				
Status	10 Add Sc	10 Add Schedule Rule		
	Name			
lccess	Day(s)	All Week C	Select Day(s)	
ools	Select Day(s)	🖬 Sun 📓 Mor	n 🖩 Tue 🛢 Wed 層 Thu 📓 Fri 🗐 Sat	
Restart Firmware	All Day - 24 Ho	urs 🔲		
Ping Test	Time Format	12-hour 💌		
Email Settings Syslog	Start Time	12 :0	AM 🗾 (hour:minute)	
Schedules	End Time	11 : 59	PM 💌 (hour:minute)	
		Add Cancel		
	Schedule Ru	Schedule Rules List		
	Name	Day(s)	Time Frame	

Name: Enter the name for the time and date schedule.

Days(s): Click the **All Week** radio button to use all the weekdays for this schedule. Click the **Select Day(s)** radio button to use only the selected days in the week.

Select Day(s): When the Select Day(s) radio button is selected, tick the check box to select which day of the week to be used.

All Day – 24 hrs: Tick the check box to use all the hours in a day.

Time Format: Select the time format. Options to choose from are **12-hour** and **24-hour**.

Start Time: Enter the starting time of a day.

End Time: Enter the ending time of a day.

Click the **Add** button to add this schedule into the schedule rules list. Click the **Cancel** button to discard the changes made.

Networking Basics

After you installed your new network or wireless adapter, by default, the TCP/IP settings should be set to obtain an IP address automatically from a DHCP server. By default the DHCP server option on your AP is enabled.

To verify your IP address, please follow the steps below:

- Click the Windows Start button and open the Run application.
- In the **Open** check box, type *cmd* and click **OK**.
- At the command prompt, type in the command *ipconfig* and press Enter. This will display the IP address, Subnet Mask, and the Default Gateway of your adapter. If the address is 0.0.0.0, it means that your network adapter did not receive an IP address from the DHCP server. Check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.

Administrator: C:\Windows\system32\cmd.exe	
C:\Users\Nana}ipconfig	
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix .: Link-local IPv6 Address : fe80::e52d:edb8:c735:3171%10 IPv4 Address : 192.168.10.10 Subnet Mask : 255.255.255.0 Default Gateway	
Tunnel adapter isatap.{0C175076-5C89-4779-A237-954AF078F9A0}:	
Media State : Media disconnected Connection-specific DNS Suffix . :	
Tunnel adapter Teredo Tunneling Pseudo-Interface:	
Media State : Media disconnected Connection-specific DNS Suffix . :	
C:\Users\Nana>	

Statically Assign an IP address

If you are not using a DHCP capable gateway/AP, or you need to assign a static IP address, please follow the steps below:

- Click the Windows Start button and navigate to the Control Panel > Network and Sharing Center and click the Change Adapter Settings option on the left panel.
- Right-click the Local Area Connection, which represents your network adapter, and select **Properties**.
- Select the Internet Protocol Version 4 (TCP/IPv4) option and click the Properties button.
- Select Use the following IP address and enter an IP address that is on the same subnet as your AP. For example: If your AP is running on the IP address of 192.168.10.100, use any IP address from 192.168.10.1 to 192.168.10.99, or 192.168.10.101 to 192.168.10.254. Use the Subnet Mask of 255.255.255.0. Set Default Gateway the same as the LAN IP address of your AP. Set Preferred DNS server IP address the same as the LAN IP address of your AP. The Secondary DNS is not needed at this stage.
- Click the **OK** button twice to return to the **Network Connections** window.

ernet Protocol Version 4 (TCP/IPv4) Properties			
General			
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.			
Obtain an IP address automatically			
Output the following IP address:			
IP address:	192 . 168 . 10 . 10		
Subnet mask:	255 . 255 . 255 . 0		
Default gateway:	• • •		
Obtain DNS server address automatically			
O Use the following DNS server addresses	resses:		
Preferred DNS server:	192 . 168 . 10 . 2		
Alternate DNS server:	· · ·		
Validate settings upon exit	Advanced		
	OK Cancel		

Wireless Basics

Wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless AP is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

How does Wireless work?

Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away. Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, we have a wireless solution for it.

<u>Home</u>

- Gives everyone at home broadband access.
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house.
- Simple and easy to use.

Small Office and Home Office

- Stay on top of everything at home as you would at office.
- Remotely access your office network from home.
- Share Internet connection and printer with multiple computers.
- No need to dedicate office space.

Where is wireless used?

Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more

public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a Wireless Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips

Here are a few things to keep in mind, when you install a wireless network.

Centralize your AP or Access Point

Make sure you place the AP/access point in a centralized location within your network for the best performance. Try to place the AP/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the AP/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the AP. Refer to product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

- Infrastructure All wireless clients will connect to an access point or wireless AP.
- Ad-Hoc Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more wireless network Cardbus adapters.

An Infrastructure network contains an Access Point or wireless AP. All the wireless devices, or clients, will connect to the wireless AP or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless Cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The AP offers wireless security options like WPA/WPA2 PSK/EAP.

What is WPA?

WPA (Wi-Fi Protected Access) is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless AP or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Technical Specifications

Hardware Specifications

- LAN Interface: Four 10/100Mbps LAN ports
- WPS button
- Reset button
- Power button
- Wireless Interface (2.4GHz): IEEE 802.11b/g/n
- Wireless Interface (5GHz): IEEE 802.11a/n

Operating Voltage

- Input: 100~240V (±10%), 50~60Hz
- Output: DC12V, 1A
- Power Consumption: 10.1 Watt

Temperature

- Operating: 0°C~40°C (32°F~104°F)
- Non-Operating: -20°C~65°C (-4°F~149°F)

Humidity

- Operating: 10%~90% non-condensing
- Non-Operating: 5%~95% non-condensing

Wireless Frequency Range

• For 15.407

802.11a/n:5.18~5.24GHz

For 15.247
 802.11b/g/n:2.412~2.462GHz
 802.11a/n:5.745~5.825GHz

Wireless Bandwidth Rate

- IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
- IEEE 802.11a/g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
- IEEE 802.11n: 6.5 to 300 Mbps

Wireless Channel Numbers

• For 15.407

4 for 802.11a,802.11n(HT20)

- 2 for 802.11n(HT40)
- For 15.247(2.4G)

11 for 802.11b, 802.11g,802.11n(HT20) 7 for 802.11n(HT40)

- For 15.247(5G)
 5 for 802.11a,802.11n(HT20)
 - 2 for 802.11n(HT40)

Wireless Security

- WEP (64/128bit)
- WPA/WPA2-Personal
- WPA/WPA2-Enterprise
- WPS (PIN & PBC)
- 802.1X

Wireless Modulation

- IEEE 802.11a: BPSK, QPSK, 16QAM, 64QAM, and OFDM
- IEEE 802.11b: DQPSK, DBPSK, and CCK
- IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM, and OFDM
- IEEE 802.11n: BPSK, QPSK, 16QAM, and 64QAM with OFDM

Safety and Emission

- EMI: FCC Class B, CE Class B
- Safety: UL, TUV

Dimensions & Weight

- 120 x 164 x 45 mm
- 241.7 grams

Federal Communication Commission

Interference Statement

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.

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.

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.

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

For operation within $5.15 \sim 5.25$ GHz frequency range, it is restricted to indoor environment. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.