



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TEW-230APB. You'll find the answers to all your questions on the TRENDNET TEW-230APB in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TRENDNET TEW-230APB
User guide TRENDNET TEW-230APB
Operating instructions TRENDNET TEW-230APB
Instructions for use TRENDNET TEW-230APB
Instruction manual TRENDNET TEW-230APB

USER'S GUIDE



802.11b Wireless Access Point



Copyright© TRENDware International, Inc. 2003. All Rights Reserved.

Regulatory notes and statements

Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

- On board of airplanes, or
- In an explosive environment, or
- In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

Regulatory Information/disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

USA-FCC (Federal Communications Commission) statement

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:
1. This device may not cause interference, and



[You're reading an excerpt. Click here to read official TRENDNET TEW-230APB user guide](http://yourpdfguides.com/dref/3280908)
<http://yourpdfguides.com/dref/3280908>

Manual abstract:

The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example: -On board of airplanes, or -In an explosive environment, or -In case the interference risk to other devices or services is perceived or identified as harmful In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment. Regulatory Information/disclaimers Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

USA-FCC (Federal Communications Commission) statement This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause interference, and 2. This device must accept any interference, including interference that may cause undesired operation of this device. Export restrictions This product or software contains encryption code that may not be exported or transferred from the US of Canada without an approved US Department of Commerce export license.

FCC Radio Frequency Exposure statement This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65 and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this Wireless LAN device is far below the FCC radio frequency exposure limits.

@@@When device is transmitted it sends out radio frequency (RF) signal. @@Use on the supplied antenna. @@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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures: 1. Reorient or relocate the receiving antenna. 2. Increase the distance between the equipment and the receiver.

3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. 4. Consult the dealer or an experienced radio/TV technician for help. CE Mark Warning This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. Protection requirements for health and safety Article 3.1a Testing for electric safety according to EN 60950 has been conducted. These are considered relevant and sufficient. Protection requirements for electromagnetic compatibility Article 3.

1b Testing for electromagnetic compatibility according to EN 301 489-1, EN 301 489-17 and EN 55024 has been conducted. These are considered relevant and sufficient. Effective use of the radio spectrum Article 3.2 Testing for radio test suites according to EN 300 328-2 has been conducted. These are considered relevant and sufficient.

TABLE OF CONTENT About This Guide.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 1 Purpose....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 1 Overview of this User's Guide.

.....

.....

.....

.....

.....
.....
.....

..... *1 Unpacking and Setup*

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... *3 Unpacking*

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... *3 Setup*

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

..... *3 Hardware Instalation*

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... *5 LED Indicator*

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....

... 5 Rear Panel

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 6 Hardware connections.....

.....
.....
.....

.....
.....
.....
.....

. 7 Connect to the Switch/Hub

.....
.....

.....
.....
.....
.....

..... 7 Check the installation.

.....
.....
.....

.....
.....
.....
.....

.....
.....

. 7 Configuring the Wireless LAN Access Point

.....

.....
.....
.....

.... 9 Login.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

9 Site Contents of the Access Point

.....
.....
.....

.....
.....
.....

10 Status.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 11 Wireless

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... @@@@Describes the WLAN Access Point and its features. Unpacking and Setup.
@@Hardware Installation. Describes the LED indicators of the AP. Software Installation. Tells how to setup the driver and the utility setting. Technical Specifications.

@@@@Fix the direction of the antennas. @@@The antenna's position enhances the receiving sensitivity. 3 4 HARDWARE INSTALATION Rear Panel The figure below shows the rear panel of the Access Point LED Indicator The figure below shows the LED Indicator of the Wireless LAN Access Point.

- + Eithernet R eset Power LAN WLAN Rear Panel Ethernet Ethernet uplink port with auto-sensing for connecting to either 10/100Mbps Fast Eihernet connections, connect this port to switch/hub. Reset There is two function by pressing the "Reset" button, one is software reboot and the other is factory reset. Software Reboot: to reboot the Access Point, press the "Reset" button. Factory Reset: to reset the setting back to factory default setting, press the "Reset" button within 10 seconds, once you press the button, the LED of the WLAN will turn off and when the Access Point is ready, the LED will start blinking. DC Power Connect the AC Power Adapter to the AP's power jack. Front View POWER This indicator lights green when the Access Point receives power. Otherwise, it turns off.

LAN (Link/ACT) The indicator lights green when the LAN port is connected to a 100Mbps Ethernet station, the indicator blinks green while transmitting or receiving data on the 100Mbps Ethernet network. WLAN (Link) The indicator blinks green when the wireless station connected to the AP, the AP is always transmitting or receiving data once a wireless device is connected, otherwise, the light turns off. 5 6 Hardware connections Noteb ook Switc h/Hub POWER SY STEM LAN 1 2 3 4 Li k/ n AC T 100 M PC Ethernet p ort Noteb ook Wireless LAN Networking Connect to the Switch/Hub 1. Plug in one end of the RJ45 network cable to the Switch/Hub port, 2. Plug in the other end of the RJ45 network cable to the Wireless Access Point.

Check the installation The control LEDs of the Access Point are clearly visible and the status of the network link can be seen instantly: 1. With the power source on, once the device is connected, the Power, LAN and WLAN port link LEDs of the Internet Broadband Router will light up indicating a normal status.



[You're reading an excerpt. Click here to read official TRENDNET
TEW-230APB user guide](http://yourpdfguides.com/dref/3280908)
<http://yourpdfguides.com/dref/3280908>

2. If the LAN Port's Link indicator does not light up then check the RJ-45 cable if it is firmly feed to the RJ45 port, while the LAN is link up to the Switch/Hub, the LAN port's LED will light up. 7 CONFIGURING THE WIRELESS LAN ACCESS POINT The Wireless Access Point has a Web GUI interface for the configuration.

The AP can be configured through the Web Browser. A network manager can manage, control and monitor the AP from the local LAN. This section indicates how to configure the AP to enable its functions. Site Contents of the Access Point There are seven mainkeys can use to break into a network by spoofing (or faking) the MAC addresses. Wi-Fi Protected Access (WPA) is the newest and best available standard in Wi-Fi security. Two modes are available: Pre-Shared Key and RADIUS. Pre-Shared Key gives you a choice of two encryption 14 methods: TKIP (Temporal Key Integrity Protocol), which utilizes a stronger encryption method and incorporates Message Integrity Code (MIC) to provide protection against hackers. RADIUS (Remote Authentication Dial-In User Service) utilizes a RADIUS server for authentication and the use of dynamic TKIP, AES, or WEP. Pre-Shared Key Format: select Passphrase mode or Hex mode for the Pre-Shared Key. Pre-Shared Key: Enter the Pre-Shared Key via using the Passphrase mode (8-63 character alphanumeric) or Hex mode (64 character 0~F hexadecimal).

Pre-Shared Key: Enter the Pre-Shared via using the Passphrase mode or Hex mode. Authentication RADIUS server: fill the port, IP address and the password of the RADIUS server. When choose the encryption to WEP mode, you need to click on the "Set WEP Key" button, some setting as follow: When choose the encryption to WPA mode, you need to select some setting as follow: WPA Authentication Mode: select a WPA-Radius or Pre-Shared Key for the authentication mode. WPA Unicast Cipher Suite: select the encryption method using TKIP. TKIP (Temporal Key Integrity Protocol), which utilizes a stronger encryption method and incorporates Message Integrity Code (MIC) to provide protection against hackers. Key Length: to access the WEP Key in 64-bit or 128-bit. Key Format: to access the key in ASCII format or Hex format. Default Tx Key: to set the default WEP from Key#1 to Key#4. Key Setting #1 ~ #4: you can type the key that you want to use from Key#1 to Key #4, and the key that you type will be the 16 15 encryption between the station that you connected with, if you select 64bit in Hex format, you must type 10 values in the following range (0~F, hexadecimal), or 64bit in ASCII format, you must type 5 values in the following range (0~9, A~Z and a~z Alphanumeric). Besides, if you select 128bit in Hex format, you must type 26 values (0~F, hexadecimal), or 128bit in ASCII format, you must type 13 values in the following range (0~9, A~Z and a~z Alphanumeric).

Click on the 802.1x function to authenticate the WEP security with the wireless devices, select WEP 64bits or WEP 128bits for authentication. IV. Access Control Access Control function allows clients whose MAC addresses in the list will be able to connect to this Access Point. When this function is activate, there is no wireless clients will be able to connect to the Access Point unless they are listed in the Access Control list.

V. Connection List This function shows the MAC Address, transmission packet counters, reception packet counters, and encrypted status for each associated wireless client. VI. WDS Setting WDS (Wireless Distribution System) uses wireless media to communicate with other Aps, click enable WDS to configure the following setting on this page: 17 18 Add WDS AP: set the MAC address of which AP you want to communicate with, type a name in the comment for the AP to easier the manager to monitor. @@@@ You will be prompted to confirm the upgrade.

Note: Do not turn off the power during uploading, it may cause the system crash. Statistics This screen shows the packet counters for transmission and reception on both Wireless LAN and Ethernet LAN. 19 20 Save/Reload Settings This screen allows you to save the current settings, load the settings where you save before, or reset the setting back to factory default. Save Setting to File: save the current setting of the Access Point to which path and filename you want to save. Load Settings from File: load the setting where you save before, press Browse button to search the filename and press Upload button to start loading the file. Reset Settings to Default: this button will help you to bring back to factory default settings. Password Settings This screen is used to set the password when you need to login the Access Point, type in the User Name, the New Password and Confirmed Password to access new login security. 21 22 TECHNICAL SPECIFICATIONS General Standards Standard: IEEE 802.11b IEEE 802.3u 10/100BASE-TX Fast Ethernet Signal Type: Modulation: LED Indicators: Frequency Band: Channel: Data Encryption: Data Transfer Rate DSSS (Direct Sequence Spread Spectrum) QPSK / BPSK / CCK Power, LAN (Link/Activity), WLAN (Link) 2.

4 GHz 1 ~ 11 Channels (US, Canada, China) 64 bit / 128 bit WEP Encryption Fast Ethernet: 100Mbps Wireless: Up to 11Mbps (with Automatic Scale Back) Transmission Range: Outdoor: 100~300M Indoor: 40~100M Network Cables 10BASE-T: 2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100ohm STP (100 m) Power Consumption Temperature Humidity Dimensions EMI: 4.5W (Max) Operating: 0° ~ 40° C, Storage: -10° ~ 70° C Operating: 10% ~ 90%, Storage: 5% ~ 90% 140 x 98 x 30 mm (W x H x D) without Antenna FCC Class B, CE Mark B, Interface 1 x 10/100Mbps RJ45 port Antenna: 2 x 2dBi Reverse SMA type Dipole Antenna (detachable) Physical and Environmental DC inputs DC 5V /1.2 or higher current 23 24 .



[You're reading an excerpt. Click here to read official TRENDNET TEW-230APB user guide](http://yourpdfguides.com/dref/3280908)
<http://yourpdfguides.com/dref/3280908>